

LET Office



**A P P A L A C H I A N
S T A T E
U N I V E R S I T Y**

General Bulletin

1987-88

1988-89



ACADEMIC CALENDAR FOR 1987-88, 1988-1989

Fall Semester, 1987

August 15	Residence halls open for freshmen
August 16	Residence Halls open for all
August 17	Registration/Faculty Meetings
August 18	Schedule adjustment/first day of classes.
August 19	Schedule adjustment/last day to add classes and pay fees
September 7	Labor Day Holiday
Oct. 14, noon	
Oct. 18	Fall break (to begin with classes which begin 12 noon or later)
October 24	Homecoming
Nov. 25, noon-	
Nov. 29	Thanksgiving (to begin with classes which begin 12 noon or later)
December 8	Final day of classes
December 9	Reading day
Dec. 10-12, 14-15	Final examinations

Spring Semester, 1988

January 10	Residence Halls open
January 11	Registration/faculty meetings
January 12	Schedule adjustment/first day of classes
January 13	Schedule adjustment/last day to add classes and pay fees
March 4, noon-	
March 13	Spring break (to begin with classes which begin 12 noon or later)
April 1, noon-	
April 5	Easter holidays (to begin with classes which begin 12 noon or later)
May 5	Final day of classes
May 6	Reading day.
May 7, 9-12	Final examinations
May 15	Commencement

Fall Semester, 1988

August 20	Residence halls open for freshmen
August 21	Residence halls open for all
August 22	Registration/faculty meetings
August 23	Schedule adjustment/first day of classes
August 24	Schedule adjustment/last day to add classes and pay fees
September 5	Labor Day Holiday
Oct. 5, noon-	
Oct. 9	Fall break (to begin with classes which begin 12 noon or later)
October 15	Homecoming
Nov. 23, noon-	
Nov. 27	Thanksgiving (to begin with classes which begin 12 noon or later)
December 13	Final day of classes
December 14	Reading day
Dec. 15-17 19-20	Final examinations

Spring Semester 1989

January 8	Residence Halls open
January 9	Registration/Faculty meetings
January 10	Schedule adjustment/first day of classes
January 11	Schedule adjustment/first day to add classes and pay fees
March 3, noon-	
March 12	Spring break (to begin with classes which begin 12 noon or later)
April 13, noon-	
April 18	Easter Holiday (to begin with classes which begin 12 noon or later)
May 4	Final day of classes
May 5	Reading Day
May 6, 8-11	Final examinations
May 14	Commencement



Appalachian State University Bulletin

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Announcements for

1987-88, 88-89

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Appalachian State University is committed to equality of educational opportunity and does not discriminate against applicants, students or employees based on race, color, national origin, religion, sex, age or handicap. Moreover, Appalachian State University is open to people of all races and actively seeks to promote racial integration by recruiting and enrolling a larger number of black students.

55,000 copies of this publication were printed at a cost of \$53,643, or 97¢ per copy.

The Appalachian State University *General Bulletin* is intended for information purposes only and does not constitute a contract between the University and the student. While this catalog presents policies and programs as accurately as possible at the time of publication, the University reserves the right to revise any section or part without notice or obligation.

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The University

Appalachian State University, founded in 1899 as Watauga Academy, is located in Boone, North Carolina, in the heart of the Blue Ridge of the Appalachian mountains, close to the borders of Virginia and Tennessee and less than two hours from the region's major airports and population centers.

Growing steadily through its transformations as Appalachian State Normal School in 1925 to Appalachian State Teachers' College in 1929 to Appalachian State University in 1967 and a part of the consolidated University of North Carolina in 1972, the campus has come to occupy some 48 buildings on its 75-acre main campus as well as several new buildings on the new 180-acre west campus. The University has a master plan for an enrollment of 10,000 students with future expansions concentrated on some 330 acres of outlying land owned by the University.

Appalachian maintains two campuses away from Boone for experiential studies. The New York Loft, begun in 1974, consists of some 3,000 square feet of carefully designed living space for ten to twelve visitors at a time. Located at 67 Vestry Street in the SoHo district of New York City, the loft is within easy walking distance of the World Trade Center, Chinatown, Little Italy, and all SoHo area galleries.

The Appalachian House, a satellite campus in Washington, D.C., opened in 1977. The 150-year-old house is in the heart of the Capitol Hill Historic District. It is next door to the Folger Shakespeare Library, only minutes away from the U.S. Senate and House chambers, Congressional offices, the Library of Congress, and the Supreme Court. The Appalachian House and Loft, supervised by the Associate Vice Chancellor for Academic Affairs, are not open to the general public, but are reserved for use by ASU faculty, students and staff.

The University welcomes and encourages prospective students, alumni, and friends to visit the campus and to tour the surrounding area which encompasses six ski resorts, nine golf courses, and several major tourist attractions.

Mission

Founded in 1899 as Watauga Academy, Appalachian State University soon evolved into a state teacher's college, later broadened its purpose to include the liberal arts, and became a part of the consolidated University of North Carolina in 1972. From its beginnings as a small local institution, Appalachian has grown to an enrollment of approximately 10,000 students from every section of North Carolina, as well as from other states and nations. Throughout its rapid growth, the University has consistently maintained a student-centered environment and has been responsive to the changing needs of its constituency.

Appalachian State University is a comprehensive university, offering some 130 academic majors at the baccalaureate level and over 70 academic majors at the master's

and intermediate levels. As a comprehensive university whose major clientele is the traditional undergraduate student, Appalachian's primary mission will continue to be that of instruction. To prepare a diverse constituency for productive lives in society, the University will provide each student with a well-rounded liberal education and the opportunity to participate in a wide range of educational experiences and professional programs. It will maintain a strong commitment to excellence in instruction, as well as its tradition of attention to the individual needs of students.

At Appalachian research and service are supportive of the instructional mission. The major purposes of research, scholarship and other creative activities are to serve as a basis for instruction, to ensure a vital and intellectually engaged faculty, and to provide a means for the advancement of knowledge. Professional and public service is provided in the form of continuing education programs and activities, consultation services, the extension into the community of the professional knowledge and skills of the faculty, staff and students, and the sharing of the University's cultural and recreational activities and facilities. In recognition of its special responsibilities to the region, the University seeks to contribute to the understanding, appreciation and preservation of the unique culture of the Appalachian region.

Purpose

Within the framework of higher education established by the State of North Carolina, Appalachian State University seeks to nurture an intellectual climate in which truth is sought and respected, critical thinking is encouraged, cultural horizons are broadened, and ethical and aesthetic values are appreciated. It maintains an academic environment conducive to learning, sensitive to individual, community and regional needs, and alert to the new ideas and challenges of a complex and changing world. To prepare a diverse constituency for productive lives in society, the university provides each student with a well-rounded liberal education and the opportunity to participate in a wide range of educational experiences and professional programs. The university's faculty and administration are dedicated to excellence in teaching, research, and service. Within the limits of its resources, Appalachian State University serves the educational needs of the people within its sphere of influence.

Accreditation

Appalachian State University is fully accredited by the Southern Association of Colleges and Schools. In addition to this comprehensive accreditation, other special accreditation by appropriate agencies includes:

- The National Council for Accreditation of Teacher Education
- The North Carolina Department of Public Instruction
- The American Home Economics Association (undergraduate)
- The American Assembly of Collegiate Schools of Business (undergraduate and graduate)
- The American Chemical Society (undergraduate)
- The National Association of Schools of Music

The Council on Rehabilitation Education (graduate)
The Council for the Accreditation of Counseling and Related Education Programs

The University is a member of appropriate state and national associations and organizations to which its professional programs are related. These include:

The Conference of Southern Graduate Schools
The Council of Colleges of Arts and Sciences
The Council of Graduate Schools in the United States
The North Carolina Association of Colleges and Universities
The National Association of Business Teacher Education
American Association of State Colleges for Teacher Education
The American Council on Education
The American Association of University Women
National Council on Rehabilitation Education
National Collegiate Honors Council

Corporate History

The University of North Carolina is comprised of all the public institutions of higher education in North Carolina that confer degrees at the baccalaureate level or higher. The University was authorized by the State Constitution in 1776, and it was chartered in 1789 by the General Assembly.

The University of North Carolina opened its doors to students at Chapel Hill in 1795. Thereafter, beginning in the latter part of the nineteenth century, the General Assembly of North Carolina has established and supported fifteen other public senior institutions in keeping with Article IX, Section 8, of the Constitution of North Carolina which provides that the "General Assembly shall maintain a public system of higher education, comprising The University of North Carolina and such other institutions of higher education as the General Assembly may deem wise."

By 1969, The University of North Carolina included six constituent institutions, governed by a single Board of Trustees. This multi-campus University had its beginnings in legislation enacted in 1931 that defined The University of North Carolina to include The University of North Carolina at Chapel Hill, North Carolina State University at Raleigh, and The University of North Carolina at Greensboro. In the 1960's three additional campuses were added: The University of North Carolina at Charlotte, The University of North Carolina at Asheville, and The University of North Carolina at Wilmington.

Beginning in 1877, the General Assembly of North Carolina established or acquired ten additional separately governed state-supported senior institutions of higher education. They are: Appalachian State University, East Carolina University, Elizabeth City State University, Fayetteville State University, North Carolina Agricultural and Technical State University, North Carolina Central University, North Carolina School of the Arts, Pembroke State University, Western Carolina University, and Winston-Salem State University. Then, in 1971, the General Assembly redefined The University of North

Carolina, and under the terms of that legislation all sixteen public senior institutions became constituent institutions of The University of North Carolina.

The constitutionally-authorized Board of Trustees of the six-campus University of North Carolina was designated the Board of Governors and this body is by law The University of North Carolina. The Board of Governors consists of thirty-two members elected by the General Assembly, and it is charged with "the general determination, control, supervision, management, and governance of all affairs of the constituent institutions." The chief executive officer of The University is the President.

Each constituent institution of The University has its own faculty and student body. The chief administrative officer of each institution is the chancellor, and the chancellors are responsible to the President.

Each constituent institution also has a board of trustees composed of thirteen members: eight elected by the Board of Governors, four appointed by the Governor, and the elected president of the student body *ex officio*. (The School of the Arts has two additional *ex officio* trustees.) The principal powers of these institutional boards are exercised under a delegation of authority from the Board of Governors.

Research Facilities

Faculty research, grant activity, and publication costs are supported through the Cratis D. Williams Graduate School. The Office of Research and Grants in the Graduate School provides assistance to faculty and graduate students in identifying both public and private sources of external funding and in the preparation of grant proposals. The Illinois Research Information System (IRIS), housed in the Office of Research and Grants, is an on-line computerized file containing descriptions of over 3,000 funding opportunities from federal agencies, private and corporate foundations, and other non-profit organizations which can aid faculty and students in identifying potential funding support for research, program development, travel, teaching, and advanced study. In addition, the Office of Research and Grants offers assistance at all stages of proposal development from proposal writing to proposal typing. All submission requirements, including acquiring proper administrative approvals, making all necessary copies for submission, and mailing of proposals, are the responsibility of the Office of Research and Grants.

The Graduate School, with recommendations from the University Research Committee, administers funds which provide modest grants to faculty for research equipment and supplies, publication and travel costs, and manuscript preparation. Research assistance is provided through the allocation of Graduate Research Assistants to departments during the academic year and to individual faculty for research projects in the summer. Access to research library facilities on the Chapel Hill campus is provided by scheduled van service for faculty and graduate students. Information regarding the research activities of Appalachian faculty and students is disseminated through the *Research News* which is published twice each year by the Graduate School.

Research facilities maintained by Appalachian include the Carol Grotnes Belk Library and the Office of Computer and Management Services. The W.L. Eury Appalachian Regional collection, provides research as well as instructional support to faculty and students. The Office of Computer and Management Services assists faculty and

students in research computing and in statistical treatment of data. The Faculty Development Fund, administered through the Faculty Development and Instructional Services Center, provides funds for faculty study and professional development. The Office of Grants Accounting assists faculty with the financial administration of grants and contracts.

The College of Arts and Sciences maintains specialized research facilities which include the Center for Appalachian Studies, the Dark Sky Observatory, the Meteorological Reporting Station, and the Regional Bureau of Government. The Bureau of Economics and Business Research in the Walker College of Business assists faculty and students in research efforts, and the College of Fine and Applied Arts has research facilities in the Human Performance Laboratory, the Perceptual Motor Training Laboratory and the Music Electronic Laboratory. The College of Education provides research facilities and support through the Statistics/Testing/Research Laboratory, the Educational computer Laboratory, the Teacher Education Student Data Bank, the Speech and Hearing Clinic, the Reading Education Curriculum Laboratory, the Center for Learning Evaluation and Research, the Early Childhood Learning Center, and the Western Carolina Research Center. In addition, Appalachian allocates faculty time and financial support toward the publication of numerous research journals and periodicals.

Special Service Programs for the Region

In accordance with its mission "to serve the people of the region in which it is located," Appalachian State University sponsors several programs designed to serve the educational, cultural, social, economic and governmental needs of the people and institutions of its region:

Appalachian Consortium

The Appalachian Consortium is a non-profit, educational association whose membership is composed of institutions of higher education and cultural agencies in the Southern Highlands. The purpose of the Appalachian Consortium is to promote among the general public an understanding and appreciation of the culture of the region. This purpose is achieved through the sponsorship of conferences, forums, festivals and workshops with special emphasis on Appalachian traditions and environment. The Consortium serves as a vehicle for the development of cooperative projects initiated by regional scholars and teachers at member institutions and agencies. The Appalachian Consortium is supported by public and private grants and member contributions. The Appalachian Consortium Press is a division of the Appalachian Consortium which publishes works dealing with the Southern Highlands.

Center for Management Development

The Center for Management Development is an integral part of the John A. Walker College of Business. Human resource development programs are designed and coordinated to assist individuals, corporations, and public and private institutions. Both ASU faculty and outside consultants are used in the facilitation of seminars, con-

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ferences, and custom-tailored courses to meet the needs of the business, industry, government, and non-profit sectors in ASU's geographic region. Specific programs can be designed for managers and personnel at any organizational level.

Extension Instruction

The Office of Extension Instruction assists university departments in creating and operating off-campus courses leading to undergraduate or graduate degrees, teacher certification, and renewal credit. The office also makes available non-credit instruction for professional development and training.

The Broyhill Inn and Conference Center

The Broyhill Inn and Conference Center brings to the campus adult students from throughout the region as well as hosts meetings for state, regional, national and international organizations. Some of the areas of interest include agriculture, medicine, science, business, and law. Special courses are also designed to assist people in their daily lives and vocations. The Broyhill Inn and Conference Center provides not only programs of interest but also lodging, dining, and meeting facilities.

National Center for Developmental Education

The center is the nation's primary broker of information and training in the field of Developmental Education. Each year hundreds of postsecondary educators take advantage of Center resources. The Center is located within the Reich College of Education.

Developmental Education is that aspect of adult education concerned with the learning and human development needs of academically underprepared students.

Bureau of Economic and Business Research

The bureau is sponsored by the John A. Walker College of Business to promote and coordinate faculty research and service activities. Special attention is given to projects that facilitate the economic development of Western North Carolina. Bureau services are available to new or established businesses, industry and government throughout the state, with special attention given to the primary service region of Western North Carolina.

Appalachian Regional Bureau of Government

The bureau provides training, research and information for local government officials in the region. Training programs sponsored by the bureau have been in the areas of law enforcement, budgeting, financial and personnel management, affirmative action, land use planning, tourism, historic preservation, community appearance, and environmental concerns.

Center for Appalachian Studies

Through development of programs and projects in such areas as the Appalachian region's arts, public policy, and social and cultural issues, the Center for Appalachian Studies assists in the enhancement, clarification and evaluation of regional concerns. The center also coordinates degree programs in Appalachian Studies.

Center for Community Education

The Center for Community Education was established in November, 1973, and is located within the Department of Leadership and Higher Education within the College of Education. Center policy and goals are determined by a twenty-two member Statewide Advisory Board. The four service activities of the Center are:

- I. Dissimination of information about the philosophy of community education and the community education concept.
- II. Consultant services and technical assistance to communities and agencies interested in implementing or expanding community education efforts.
- III. Training through pre-service, in-service, academic, non-academic workshops and institutes.
- IV. Evaluation and assessment services to assist in the continual improvement of comprehensive community education programs and processes.

Graduate and undergraduate courses are offered through the Center. For information call 262-2215.

Volunteers in Service for Youth

This university effort provides students as adult friends for area children who need them. Children in the program come from a variety of backgrounds; some come from homes having only one parent, and others have parents who cannot give them sufficient time or attention. The program is an outgrowth of university and student interest in community activities.

Student Life

Student Development Center

The Student Development Center incorporates all recognized student organizations in its goal of assisting individual students with their personal development. Through internships and leadership practicums within these organizations, students gain valuable experiences through structured programs which complement their classroom education.

Approximately 110 clubs and organizations sponsor a myriad of activities. Fraternities, sororities, academic, honor, service and religious organizations are open to all students for membership.

Through participation in the Student Government Association students may take an active role in University governance. The Student Senate is a recommending body made up of elected representatives from residence halls and off campus constituencies; students accused of violations of University regulations have all those rights guaranteed by the United States Constitution, and they may have an open hearing before the Student Court.

The Appalachian, ASU's student newspaper, is published twice a week to keep students informed of campus events. *The Rhododendron* yearbook is available to students by subscription.

The Black Student Association is another major student organization which sponsors a series of educational programs throughout the year to create an awareness of the uniqueness of Black American culture.

Division of Student Programs

Student Programs, a division of Student Affairs, provides the ASU community with a variety of social, cultural, recreational and education programs and experiences. These co-curricular programs directly enhance and enrich the lives of the students. Planning, promoting, implementing and evaluating student programs provides involved students with valuable work related skills in managing, leading, organizing, communicating, motivating others, budgeting, advertising, etc. The division seeks to ensure a balanced calendar of programs and activities which are educationally relevant and closely aligned with academic departments. Through internships and management practicums, students supervise support services of the division and gain experience in a variety of career-related positions. Also, the Office of Student Programs operates the Student Union, Farthing Auditorium and H'Appy's Social Center to provide facilities and services for programming and the general enhancement of life at ASU.

The Appalachian Popular Programs Society, (A.P.P.S.), is the all-campus programming organization sponsored and advised by the Office of Student Programs. Membership is open to all interested students and provides excellent leadership opportunities. A.P.P.S. has two major goals. One is to enhance both the quantity and quality of campus programming. The second is to provide significant "hands on" learning experiences and leadership opportunities for involved students. The organization is made up of an Executive Cabinet and the following councils: Stage Shows, Special Events, Club Shows, Films, Concerts, and Recreation & Tournaments.

The Plemmons Student Union, under the supervision of a full-time manager, is staffed completely by students. It is the central students support facility of campus. There are a number of services and in-house facilities located in the Union, including the Office of Student Programs. They include the Union Pub, Our House, the Skylight Lounge, Black Student Association Room and various meeting rooms. The Gold Room and the Sweet Shop, two of ASU's food services, are located in the Union. Other services provided in the Union include the information desk and the sign shop. A billiards room, bowling alley and television lounge are all located in the Union.

Farthing Auditorium is the university's performing arts facilities for cultural, educational and popular programs. The auditorium seats 1,800 persons and is home of the Catherine Smith Art Gallery. Farthing Auditorium regularly features programs in the Performing Arts and Lecture Series. It is through this series that Student Programs showcases selected performers of local, state and national interest and acclaim, as well as lecturers speaking on a variety of topics. Farthing also hosts performances of "An Appalachian summer," Blue Ridge Community Theatre, and special events for Watauga County Public Schools.

H'Appy's is ASU's social and entertainment center located on campus. Under the supervision of a full-time manager, it is staffed by student employees. A wide variety of entertaining programs occur in H'Appy's and are coordinated by the A.P.P.S. councils. Such programs include regional and local bands, national entertainers, theme parties, discos, comedians and movies.

Athletics

As a member of the Southern Conference, and National Collegiate Athletic Association (NCAA), Appalachian offers eight varsity sports for women, and ten varsity sports for men—the largest number of varsity athletic teams of any Southern Conference school and as many as any school in the state.

Men's varsity sports include: football, cross country, soccer, basketball, wrestling, track (indoor and outdoor), tennis, baseball, and golf. Women's varsity sports include field hockey, basketball, volleyball, golf, tennis, cross-country, and track (indoor and out).

Religious Life

Appalachian is a state-owned campus, and as such it has no religious affiliation. Its students, however, promote and support church affiliated organizations which include the Baptist Student Union, Canterbury Club, Jewish Student Club, Lutheran Student Association, Newman Club, Wesley Foundation, and Westminster Fellowship. Nine churches (Advent Christian, Baptist, Catholic, Church of Christ, Episcopal, Lutheran, Presbyterian, Missionary Alliance and United Methodist) are within walking distance of the campus.

University Services

Student Advisement

Appalachian State University views student advisement as one of its highest responsibilities and priorities. It seeks to provide every student with assistance in identifying academic and career interests, developing a realistic and successful academic program, planning an effective career strategy, and in addressing personal and social areas of concern. Faculty, administrators, and staff are committed to a comprehensive system of advisement that meets the needs of Appalachian State University students at each stage of their university education.

Student Orientation. ASU provides a comprehensive orientation program for all new undergraduate students prior to their initial enrollment. The program utilizes ASU faculty members, staff, and upper-class students in providing information on academic programs, placement testing, advice on course scheduling, university policies and procedures, residence life, financial aid, and co-curricular activities. Information is also provided on goal setting, college survival skills, and adjusting to changing life styles.

Orientation services are provided in two phases. Phase I is coordinated by the General College and emphasizes academic information, placement testing and course scheduling. It takes place during the summer and prior to each semester. Phase II is coordinated by the Office of Student Affairs and focuses on co-curricular activities, survival skills, residence life, goal setting, and changing life styles. It takes place at the beginning of fall semester.

Faculty Advising Service. The General College operates a Faculty Advising Service for students in their first semesters on the ground floor of D.D. Dougherty Library. Faculty representatives from the academic departments assist with course scheduling, interpreting university policies, and developing academic majors and career strategies. If the situation warrants, faculty advisers will also refer students to the Career Planning Office or the Counseling Center for additional assistance. Staff advisers in the General College provide additional assistance. Advising for freshmen is mandatory.

College Office Advising. When students complete 28 semester hours, meet freshman English requirements, and attain at least a 2.00 grade point average they may declare a major. In this case, their academic records are forwarded from the General College to the appropriate degree-granting college (Arts and Sciences, Fine and Applied Arts, Learning and Human Development, Business). In some cases additional requirements must be met to be formally accepted into a college. Personnel are available in the dean's office of each degree-granting college to answer general questions about university graduation requirements, interpret university policy, and review a student's official record.

Departmental Advising. After a student has declared a major and has been accepted by the degree-granting college, a mandatory advisement conference must be scheduled with the departmental adviser (or in the College of Business with an undergraduate adviser). As the primary source of advisement for the major, the departmental adviser helps students in developing realistic and successful academic programs, exploring career opportunities, and keeping informed about university and departmental policies and activities. When and where appropriate, departmental advisers refer majors to the Counseling Center or Career Planning Office for additional assistance; the results of these consultations are normally returned to the departmental adviser to ensure consistent and effective advisement. The departmental adviser also makes certain that the major is registered with the Career Planning and Placement Office before graduation. The Counseling Center and Career Planning Office work regularly with individual departments in developing effective advisement programs.

Faculty Advisement. Faculty members at ASU maintain weekly office hours for routine conferences with students. Many faculty will be able to answer general questions

about university regulations and requirements, but others will refer students to departmental, college, or university advisers for both general and more specialized advisement. When students have personal and social problems, faculty members assist if possible and, if the need is apparent, make necessary referrals to one of the special counseling services on campus.

In order for academic advisement to be constructive and beneficial, it is important that both the student and the university adviser recognize respective responsibilities. The adviser is committed and prepared to provide appropriate, accurate, and timely information at every stage of the student's career. The student, on the other hand, must be willing to accept advisement, realizing that the ultimate responsibility for understanding university regulations and for meeting graduation requirements resides with the student.

Counseling and Psychological Services Center

The Counseling and Psychological Services Center provides a setting where students may benefit from a relationship with a skilled and experienced counselor. Within the context of this confidential relationship, they may discuss questions ranging from those related to educational-vocational decisions to those which are extremely personal in nature. Students also may choose to take a group approach as an alternative to individual discussions.

The testing section of the Counseling and Psychological Services Center has the responsibility of organizing and administering the individual and group tests for the university community. Available tests include individual intelligence, personality tests, and vocational interest inventories. Information concerning large group tests such as National Teacher Examinations, Miller Analogies Test, CLEP, and university proficiency tests is also available.

Office of Career Planning and Placement

ASU operates a comprehensive career planning and placement program for students and alumni. The office provides career counseling, career information, assistance with resume writing, interviewing skills and job search techniques, on-campus recruitment, employer information and a credentials program. In addition, the office provides a job location and development service for students who are seeking part-time employment while attending ASU.

Residence Life/Student Housing

The University has 17 residence halls housing some 4,400 students in a living and learning atmosphere. The quality of residence hall life is of as much concern to the University as the quality of any academic program.

To insure that quality, some changes have taken place in the residence halls. What used to be stark lobbies are now coeducational lounges. There are specially prepared study areas and seminar rooms in the residence halls so that some of the academic life of the campus can take place in the residential setting.

The halls are staffed and supervised by personnel who are trained to create a friendly atmosphere in which students can enjoy life and feel a part of the University community.

Each room is equipped with basic furniture. Students are expected to supply rugs, curtains, where not provided, and other personal furnishings according to individual taste. Linen service is available upon request from the University Laundry.

Some appliances are allowed in the student rooms (lamps, small television sets, small refrigerators) but others are not (hot plates, toasters, heat lamps, irons, fans, microwave ovens, and heaters). Popcorn poppers may be used only in kitchen areas. Irons may be used in laundry rooms. Refrigerator rental is available upon request from the Student Government. The *Auxiliary Services Handbook* and *The Mountaineer*, the student handbook, (available at check-in to halls) contains specific regulations and policies which govern residence hall life. All students are responsible for knowing these regulations and conducting themselves accordingly. Any student who is evicted from on-campus housing is not eligible for a refund of room rent.

Housing Requirements. The residence halls are closed during vacation and break periods, and no occupancy of rooms is permitted during this time. For those who must remain in Boone during these periods for University business, the Director of Residence Life must be contacted about scheduling possible housing arrangements.

All new, incoming freshmen (having never attended an institution of higher learning) are required to live in university-owned housing with the exception of those students living with parents or guardian, those who are married and maintaining their residence near the University, or veterans eligible for training under Public Law 358, G.I. Bill effective June, 1966. There is currently a maximum number of residence hall spaces available for each freshman class.

All students reserving rooms are subject to an academic year room and board contract. Students who reserve a room for the fall semester are obligated to pay room rent for fall and spring semester as long as they are enrolled. Exceptions are made during the term of the housing agreements for students participating in off-campus field service programs (i.e. internship or student teaching outside of Watauga County), students getting married during the term of the agreement, and students who do not enroll for any coursework for the second (Spring) term. A prorated refund will be considered for those students who are married during the semester.

Students receiving room assignments for fall semester must notify the Office of Residence Life in writing by July 1, if not accepting the assignment, to avoid billing for a semester's room rent. Room reservation deposits are forfeited upon cancellation of assignment after May 1, for new students (including transfer); July 1, for continuing students.

The Residence Life Program has qualified student leaders and professional staff who are responsible for creating an environment within our living and learning units that is conducive to and complements the educational process. Each Residence Hall has a Residence Student Association that works with the staff to provide social, educational, cultural, and recreational programs. There are limitless opportunities for meeting the needs of the resident student through program development and implementation.

Residence hall students not planning to enroll for the spring semester must notify the Office of Residence Life at least two weeks prior to examination week to avoid being responsible for a semester's room rent. Students must occupy their residence hall rooms by noon of the first day of registration in each semester. Otherwise, the reservation for this space will be cancelled, and the student will remain responsible for a semester's rent. Limited exceptions to these rules appear in the *Auxiliary Services Handbook*.

Room Reservations. Room reservation forms are mailed to a new student following admittance by the Office of Admissions. Returning students may apply for housing during spring semester for the following year. Former students who have been readmitted may apply for housing directly to the Office of Residence Life. Completed forms should be returned to the University cashier with a check for reservation deposit payable to Appalachian State University. The reservation deposit is deducted from the room rent charged for the first semester in residence.

Completing an application for housing is no guarantee that an assignment can be made.

"Academic Ineligible Statement". Students with room assignments who are declared **academically ineligible** at the end of spring semester will have their room assignment cancelled. These students will be notified of this action at the time their assignments are cancelled and given an opportunity to request a refund of their deposit if they do not wish it held for reassignment. Applicants may reapply when they regain their academic eligibility and will be placed at the end of the waiting list.

Mountaineer Apartments. The University provides 90 furnished apartments, featuring drapes, frost-free refrigerators, and wall-to-wall carpeting. Rental information and applications may be obtained at the Office of Residence Life. The apartments are available to upperclass students with married students given a priority in assignment. Faculty and staff may lease apartments if space is available.

University Health Services

Medical services are provided to students by the Mary S. Shook Student Health Services at their location on the second floor of the Student Support Building on Howard Street. When the University is in session there is a registered nurse present twenty four hours a day. Physicians are present Monday through Friday from eight a.m. to four p.m. **North Carolina law requires that all students have a complete immunization record on file at the health service, regardless of the number of hours being undertaken. Those not in compliance will be refused permission to continue class.**

Only full time students actually registered and taking courses are eligible for care at the Health Service. Some part time students may elect to pay the fee at the cashier's office

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and be eligible for care. In addition, a current, validated, ID must be presented before each visit.

Persons requiring the services outside of regular out-patient clinic hours, or those needing a type of service not available at the Health Service may be referred to off-campus physicians or to the Watauga County Hospital. In such cases the student will be expected to assume responsibility for any costs thus engendered.

Contacts with the University Health Service are confidential. Records are maintained separately from the University Records for the use of the health service personnel only, and may only be released on written permission by the student.

The Health Service does not issue excuses for class absences due to illness. Students who withdraw from the University for reasons of health must receive medical clearance through the Medical Center before being readmitted. This clearance must present evidence that the condition which necessitated withdrawal has improved and that there is reasonable expectation of the student's ability to participate in university life.

There is no additional charge for most of the services provided at the Mary S. Shook Student Health Services. The Health Service is funded by a separate fee paid by each full time student.

Insurance

An often unexpected financial burden is the cost of being treated for illnesses or accidents that require admission to the hospital or a visit to a specialist. All students are urged to carry some sort of health insurance. Many can be accommodated on the plans carried by the parents. Others who do not have this opportunity may contact the Student Health Service (262-3100) concerning the available low-cost basic insurance plan open to students for their own coverage and for coverage of their dependents. Insurance is NOT included in the student fee schedule and must be contracted for separately.

Belk Library

At the center of the campus and of academic life at Appalachian State University is the Carol Grotnes Belk Library, which houses on open stacks more than 425,000 volumes, some 110,000 government documents, and 350,000 units of microform. Approximately 5,100 periodical subscriptions are received, including the major titles in the subject fields. The library maintains subscriptions to more than 63 local, national, and foreign newspapers. Attractive areas for general reading are provided on all three levels of the library as well as study areas, lecture rooms, a reserve reading room, a periodicals reading room, and a smoking lounge on various levels.

Among the special collections are the Music Library, located in Broyhill Music Center, and the W. L. Eury Appalachian Regional Collection, containing materials (books, tapes, pictures, artifacts) primarily concerned with the Appalachian region and housed in University Hall.

A major library addition of 52,000 square feet was completed in 1979. At that time, the Curriculum Library, the Young People's Collection, the Film Library, and the Microforms Collection were combined to form the Justice-Query Instructional Materials Center, which is located on the ground floor of Belk Library.

Tours and lectures in the use of the library can be arranged with the reference staff. Locked study carrels are available to graduate students and faculty who are doing research. The Reference Department will assist with computerized searches of the educational literature for both students and faculty, and interlibrary loan service is provided to obtain materials that are not in Belk Library.

Faculty Development and Instructional Services Center

Although the Media Services Center is an organizational member of the Faculty Development and Instructional Services Center, it is located on the ground floor of Belk Library.

The standard recording and projection equipment can be checked out by persons holding a currently valid University identification card. Also, production of visual and audio materials for educational use, advice on the selection and use of equipment, and consultation on materials design may be obtained in the Media Services Center.

Designing and redesigning courses comprise the major function of the Faculty Development and Instructional Services Center. Another important aspect of the Center's work is the coordination of faculty development activities, such as workshops, seminars, and information exchange. The Center sponsors approximately 100 projects each year, including a heavy emphasis during the months of May and June.

Postal and Banking Services

A United States Post Office Station is maintained by Appalachian in the Student Support Building. A mailbox is provided for every student. The student's university mailbox address is used by the University for communicating with each student. For this reason, students are responsible for checking their university mailboxes frequently.

Convenient banking services are located in the lobby of the University Bookstore.

Laundry Service

A laundry plant is operated on the campus for use by students, faculty, and staff. It provides all the services of a commercial laundry/dry cleaning plant. Cash and carry service is available to off-campus as well as resident students. Washers and dryers are provided in residence halls.

Security and Traffic

The University Public Safety and Security Department provides services of security and police nature for the campus. The Department also supervises traffic control and parking systems.

Everyone who operates a motor vehicle on campus must register it with the University's Traffic Office.

Several types of registration are available dependent upon the category and/or resident location of the registrant.

Those eligible to drive on campus apply for parking privileges on registration day as a part of academic registration. Any student who must operate a vehicle on campus after registration day, no matter how short the period, must register the vehicle at the Traffic Office before it is driven on campus.

A fee is charged for automobile registration as set by the University's Board of Trustees and published annually in the parking and traffic regulations pamphlet.

Food Services

Appalachian owns and operates its own food service in four separate campus facilities: the University Cafeteria, the Bavarian Inn, a fast food operation; the Gold Room, for steak and seafood dining; and the Sweet Shop. All resident students are required to select a meal option. Publicized options represent minimum requirement levels. Since Food Services' pricing is *a la carte*, the level of participation by a student will determine the selection of the most appropriate option. The pre-paid meal option is managed by the student through the computerized I.D. card system.

University Bookstore

The University Bookstore, conveniently located on campus, offers a complete line of student and personal supplies and services, including the administration of a textbook rental plan. The Bookstore is owned by the ASU Endowment Fund. Profits generated by store operations help provide scholarships and financial aid for qualified students.

Writing Center

The University Writing Center offers its services to all members of the University Community. The Center's staff is specially trained to help in the completion of virtually any academic writing project, and in the solution of most writing problems. Users of the Center should make appointments for its services or may drop in to see if one of the staff is available. The Center is conveniently located in Sanford 203B. Its telephone number is 262-3144.

English Computer Users' Room

The Department of English offers twenty Commodore 64 computers with disk drives and two dot matrix printers for use by writers. The Users' Room is open to all students paying the university computer fee, and is located in 202 Sanford.

Office of Computer and Management Services

The Office of Computer and Management Services currently operates a SPERRY 1100/61 with Attached Virtual Processor, 2 billion characters of direct access storage (disk), two printers, a card reader, 6 tape drives and a front end processor handling 64 communication ports for Academic, Administrative and Public Services users. The center also has installed a Digital Equipment Corporation (DEC) 8600 which executes 4.5 instructions per second. The DEC 8600 configuration consists of 44 million (mega) bytes of main memory, 5.4 billion (giga) bytes of direct access storage space, 2 1200 LPM printers, 3 tape drives with recording densities of 1600/6250 bytes per inch and transfer speed of 780,000 bytes per second. The system supports 225 communications ports.

The center provides both administrative and academic computing support for the University and the region. The center is operated on an attended basis from 8 a.m. to 12 midnight weekdays, and from 4 p.m. to 9 p.m. on Saturday and Sunday. All other hours are on an unattended basis for student and faculty use. Consultation is available at posted times in the Office of Computer and Management Services.

Academic users rooms are located in several buildings on campus. Room 11 of Whitener Hall contains 16 AT&T 6300 microcomputers, two slow speed printers attached to micros and a 600 LPM Remote Line Printer; Room 401 Sanford Hall contains 16 AT&T 6300 microcomputers and one 600 LPM Remote Printer; Room 203 Walker Hall also contains 28 VT220 terminals, one 600 LPM Remote Printer; Room 217 in Belk Library contains 8 VT220, 6 carrels will be upgraded to VT220 by January, 1987 while Room 245 in Scott Hall contains 7 AT&T 6300 microcomputers and a slow speed printer attached to a microcomputer.

Comprehensive Clinic

The ASU Comprehensive Clinic provides diagnostic and remedial/therapeutic services in the areas of communication disorders and reading. These services are available to persons of all ages in the region. The Clinic also functions as a laboratory for students in the Speech Pathology (communication disorders) and teacher preparation programs. There is no charge to ASU students for these services. The Clinic office is located in room 118 of Edwin Duncan Hall. For more information call 262-2185.

Admissions, Expenses, Financial Aid

Appalachian seeks to admit students who are capable of mature, college-level work. As a state-supported institution, the University recognizes its obligation to provide educational opportunities to those who will benefit from them. Considerations of space, availability of housing, and other limitations, however, place some restriction on the number of students who can be admitted to the University. For this reason, students are requested to apply as early as possible. Freshmen are particularly urged to apply early since all unmarried freshmen, except *bona fide* residents of Boone and vicinity, are required to live in residence halls.

Appalachian admits students at the beginning of the fall, spring and summer terms. Any person who wishes to enter the University as either an undergraduate or special student should contact the Director of Admissions, Appalachian State University, Boone, NC 28608, for full information and application forms. All students must pay a \$15.00 application fee with the first undergraduate application, and this fee is neither deductible from the first semester's fees nor is it refundable.

Freshman Students

Applicants will be considered for admission to the freshman class upon meeting the requirements specified below. Those students who have demonstrated the greatest probability of success will be given priority in the selection of the freshman class. Requirements are as follows:

1. Graduation from an accredited secondary school. (If the applicant has not graduated, an equivalency certificate is required.)
2. Presentation of a satisfactory combination of secondary school grades and Scholastic Aptitude Test (SAT) or American College Testing Program (ACT) score. Neither class rank nor test score has an absolute minimum—it is the combination of factors that is pertinent.
3. Presentation of at least two units of college preparatory mathematics, defined as either two units of algebra or one unit of algebra and one unit of geometry. However, it is highly recommended that three units be taken (two algebra and one geometry); and, if possible, one unit should be taken during the senior year. *Entering students with tested algebra deficiencies will be required to complete developmental mathematics before entering a higher level course.*
4. Presentation of a satisfactory health record—submitted *after* academic approval.

Effective Fall, 1988, the following requirements must be met:

1. Graduation from an accredited secondary school (If the applicant has not graduated, an equivalency certificate is required.)

2. Presentation of a satisfactory combination of secondary school class rank and Scholastic Aptitude Test (SAT) or American College Testing Program (ACT) score. Neither class rank nor test score has an absolute minimum - it is the combination of factors that is pertinent.
3. Four (4) course units in college preparatory **English**;
4. Three (3) course units in **mathematics**, including geometry, Algebra I, and Algebra II (*Entering students with tested algebra deficiencies will be required to complete developmental mathematics before entering a higher level course*);
5. Two (2) course units in **social studies**, including one (1) unit in U.S. history; and
6. Three (3) course units in **science**, including at least one (1) unit in a life or biological science and at least one (1) unit in a physical science, and including at least one (1) laboratory course.
7. Presentation of a satisfactory health record—submitted **after** academic approval.

In addition, it is **recommended** that prospective students complete at least two (2) course units in one foreign language, and that they take one (1) foreign language course unit and one (1) mathematics course unit in the twelfth grade.

Transfer Students

1. Students seeking to transfer from other collegiate institutions must furnish an official transcript from each institution attended. These transcripts must indicate a cumulative 2.0 ("C") average on all transferable work attempted prior to entering Appalachian. (The repeat rule is not used in computing the cumulative grade point average on transfer course work.) Courses satisfactorily completed in other accredited institutions are evaluated in terms of the curriculum selected at Appalachian.
2. Equivalent courses with "D" grades may transfer to satisfy course requirements, but credit hours will not count toward graduation. If an ASU department requires a grade of at least "C" in a course, the course cannot be transferred. Students must pass a proficiency test in English composition or mathematics in order to receive general education credit.
3. Transfer applicants must be immediately eligible to return to the last institution attended.
4. Each transfer applicant must submit a satisfactory health record *after* academic approval has been received by applicant.

(Because of differing admission requirements, transfer applicants who are candidates for teacher certification degrees should refer to the admission requirements stipulated by the College of Education. Those transfer applicants seeking degrees in business should refer to the admission requirements for the College of Business.)

NOTE: Prospective students who have attended an accredited college but who have earned less than 28 semester hours of transferable credit must meet both freshman and transfer admission requirements. This means that in addition

to following procedures for freshman, they must present a transcript showing an overall 2.00 average on all transferable college work. In addition, such applicants must be eligible to return to the institution last attended.

Non-Degree Special Students

(Not Applicable to Freshmen or Transfer Candidates)

1. Applicants who are mature and who may not meet admission requirements but who have a satisfactory record of experience and education may be admitted to courses though they do not plan to pursue a degree. Special students are admitted for one term only (space permitting), and must be re-admitted at the beginning of each subsequent term. An individual who has been denied admission as a degree-seeking student may not enroll as a special student.
2. Such applicants may be required to present evidence of having earned a college degree or evidence of the need for specific courses. Applicants who are regularly enrolled students at other institutions may be admitted as "visiting" students provided the appropriate official at their institution authorizes their attendance at Appalachian, approves the course work selected, indicates the individual is in good standing at that institution, and otherwise approves the transfer of credits taken at Appalachian back to that institution for degree purposes. At the end of one term's work, visiting students must transfer to Appalachian or withdraw from the University.
3. Special students who desire to become candidates for a degree from Appalachian must meet appropriate admission requirements. Course work taken at Appalachian under "special student status" may not be used to satisfy the necessary admission requirements.

Four-Year Policy

Appalachian has adopted an admissions policy directed toward adults who may or may not meet the University's usual admission requirements. The policy states that an individual who has not been enrolled in either secondary or collegiate education for a minimum period of four years will be admitted without regard to normal academic qualifications. The policy has two pertinent stipulations: first, in the event the applicant did not finish secondary school he/she would be required to successfully complete the high school equivalency examination (GED test); second, students with prior collegiate work would receive credit toward graduation in a manner consistent with the University's normal transfer policy. Former Appalachian students who are ineligible to return under normal academic policy may do so under this policy if four years have elapsed since the term of their last enrollment at a post-secondary institution. The four-year policy will permit the student's former grade-point average to be removed thereby allowing the student, upon returning, to begin a new grade-point average. Former ASU students who are academically eligible to return also have the option of this policy. Former ASU students returning to the University under the *Four Year Policy* must complete a minimum of one year in residency (30 semester hours) beyond the date of their

readmission. The application procedure under this policy is the same as that indicated for either a freshman or transfer.

Graduate Students

For admission and graduation requirements, see the catalog for the Cratis D. Williams Graduate School.

Auditors

1. Students enrolled at the University or students admitted with satisfactory records of experience and education may enroll for specific courses as auditors.
2. Students who audit courses must register in the Registrar's Office, pay regular fees, be regular in attendance, but will not receive grades or credit.

Advanced Placement Program/College Level Examination Program

Appalachian participates in the Advanced Placement Program and the College Level Examination Program of the College Entrance Examination Board. Students who have demonstrated their achievement on specific Advanced Placement Tests or College Level Examination Program—subject exams only—may have the results submitted to the University for consideration with regard to placement in advanced courses and for college credit. All students are encouraged to take these tests, and may also qualify for advanced placement and credit by taking departmental tests in their areas of extensive specialization. Based upon these test results, the amount and nature of the credit granted is determined by the Committee on Academic Policies and Procedures and the pertinent department of instruction.

Readmission

Students who have withdrawn in good standing from the University or who have been suspended for academic deficiencies or for other reasons should submit their requests for readmission to the dean of the college in which they are to be enrolled. Consideration of requests for readmission of students who have been suspended for any reason will be made in light of the applicant's ability, evidence of growth and maturity, good citizenship record, credits earned at another institution, and time elapsed since leaving Appalachian.

International Student Admission

A student wishing to apply for undergraduate admission as an international student should first make arrangements through the American Consulate in his/her own country to take the Test of English as a Foreign Language (TOEFL Test) or the Scholastic Aptitude Test (SAT). No student can be approved (even if he/she meets other requirements) until a satisfactory score is received.

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Funds for financial assistance to international students are limited. Therefore, following a student's acceptance, he/she must complete a Financial Affidavit in order to show sufficient financial resources before a Form I-20 may be issued. All international students must register with the International Student Advisor upon their arrival on the campus.

International students are considered out-of-state students and must pay tuition and fees based upon out-of-state rates.

Expenses

Fees are charged by the semester and are due and payable in advance at the beginning of each semester in accordance with payment instructions issued prior to each semester.

The fees payable each semester, as anticipated at the time of publication of this catalog, are listed below. With the approval of its governing bodies, the University reserves the right to make changes in these fees when circumstances require.

Semester Tuition and Fees (Actual Rates 1986-87)

Charges include tuition and fees applied to student welfare and activities, registration, other included fees and, for undergraduate students only, textbook rental.

	IN-STATE	OUT-OF-STATE
Undergraduate students	\$441.75	\$2,065.75
Graduate students	424.25	2,048.25

Semester Subsistence Charges. The basic subsistence charge for students residing on-campus, as shown, includes room (with telephone) and standard meal option. All students are offered an optional meal plan. Upperclass students are offered an optional reduced meal plan.

Basic Subsistence Charge
\$955.00 (est. 1987-88)

The application for admission must be accompanied by an application fee of \$15.00 which is not deductible nor refundable.

An advance deposit of \$100.00 to be applied against the student's tuition and fees must be remitted by each applicant for admission within three weeks of the mailing by the University of the notice of acceptance. Failure to remit within this prescribed period will constitute withdrawal of application. If the applicant, after remitting the deposit, decides

not to attend the institution and gives notice of this decision by May 1 in the case of application for the fall term or at least one month prior to the term in the case of application for the spring term, the deposit shall be refunded. A room reservation deposit of \$100.00 for students entering Appalachian for the first time must accompany the application for a room reservation. The room reservation deposit is deductible from the room rent charge at the opening of the first semester of residence. Room reservation deposits for the fall semester are refundable upon notification on or prior to May 1. Requests for refunds of the \$100 deposits should be addressed to the Director of Admissions. Returning students are required to pay one-half of the fall semester's room rent within twenty-one days of being assigned. Failure to confirm this assignment will result in cancellation of a room. Those students assigned during spring semester have until May 1 to request refunds. Those assigned after May 1 may request refunds prior to July 1. Failure to meet these deadlines will result in forfeiture of this payment. Current students should request, in writing, refunds from the Director of Residence Life.

Part-Time Students.

1986-87					
Undergraduate					
Hours	0-5	6-7	8	9-11	12 & over
In-State	\$ 51.00	\$103.00	\$339.75	\$ 390.75	\$ 441.75
Out-of-State	\$457.00	\$915.00	\$1,151.75	\$1,608.75	\$2,065.75

1986-87					
Graduate					
Hours	0-2	3-5	6-7	8	9 & over
In-State	\$ 51.00	\$103.00	\$ 154.00	\$373.25	\$ 424.25
Out-of-State	\$457.00	\$915.00	\$1,372.00	\$1,591.25	\$2,048.25

Part-time students, registered for no less than six hours, may participate in student activities and use student facilities by paying the appropriate fee in the Controller's Office. Part-time students, registered for less than six hours, may be considered on an individual basis for eligibility to purchase these services.

Field-Based Students. Students enrolling in an off-campus course conducted by the Office of Extension Instruction pay the following charges per semester hour:

In-State	\$60.00
Out-of-State	\$68.00

(Tuition may vary depending on the number of students enrolled.)

Residence Classification for Tuition Purposes

The basis for determining the appropriate tuition charge rests upon whether a student is a resident or a nonresident for tuition purposes. Each student must make a state-

ment as to the length of his or her residence in North Carolina, with assessment by the institution of that statement to be conditioned by the following.

Residence. To qualify as a resident for tuition purposes, a person must become a legal resident and remain a legal resident for at least twelve months immediately prior to classification. Thus, there is a distinction between legal residence and residence for tuition purposes. Furthermore, twelve months legal residence means more than simple abode in North Carolina. In particular it means maintaining a domicile (permanent home of indefinite duration) as opposed to “maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education.” The burden of establishing facts which justify classification of a student as a resident entitled to in-state tuition rates is on the applicant for such classification, who must show his or her entitlement by the preponderance (the greater part) of the residency information.

Initiative. Being classified a resident for tuition purposes is contingent on the student's seeking such status and providing all information that the institution may require in making the determination.

Parents' Domicile. If an individual, irrespective of age, has living parent(s) or court-appointed guardian of the person, the domicile of such parent(s) or guardian is, *prima facie*, the domicile of the individual; but this *prima facie* evidence of the individual's domicile may or may not be sustained by other information. Further, nondomiciliary status of parents is not deemed *prima facie* evidence of the applicant child's status if the applicant has lived (though not necessarily legally resided) in North Carolina for the five years preceding enrollment or re-registration.

Effect of Marriage. Marriage alone does not prevent a person from becoming or continuing to be a resident for tuition purposes, nor does marriage in any circumstance insure that a person will become or continue to be a resident for tuition purposes. Marriage and the legal residence of one's spouse are, however, relevant information in determining residency intent. Furthermore, if both a husband and his wife are legal residents of North Carolina and if one of them has been a legal resident longer than the other, then the longer duration may be claimed by either spouse in meeting the twelve-month requirement for in-state tuition status.

Military Personnel. A North Carolinian who serves outside the State in the armed forces does not lose North Carolina domicile simply by reason of such service. And students from the military may prove retention or establishment of residence by reference, as in other cases, to residency acts accompanied by residency intent.

Grace Period. If a person (1) has been a bona fide legal resident, (2) has consequently been classified a resident for tuition purposes, and (3) has subsequently lost North Carolina legal residence while enrolled at a public institution of higher education, that person may continue to enjoy the in-state tuition rate for a grace period of twelve months measured from the date on which North Carolina legal was lost. If the twelve months ends during an academic term for which the person is enrolled at a State institution of higher education, the grace period extends, in addition, to the end of that term. The fact of marriage to one who continues domiciled outside North Carolina does not by itself cause loss of legal residence, marking the beginning of the grace period.

Minors. Minors (persons under 18 years of age) usually have the domicile of their parents, but certain special cases are recognized by the residence classification statute in determining residence for tuition purposes.

(a) If a minor's parents live apart, the minor's domicile is deemed to be North Carolina for the time period(s) that either parent, as a North Carolina legal resident, may claim and does claim the minor as a tax dependent, even if other law or judicial act assigns the minor's domicile outside North Carolina. A minor thus deemed to be a legal resident will not, upon achieving majority before enrolling at an institution of higher education, lose North Carolina legal residence if that person (1) upon becoming an adult "acts, to the extent that the person's degree of actual emancipation permits, in a manner consistent with bona fide legal residence in North Carolina" and (2) "begins enrollment at an institution of higher education not later than the fall academic term next following completion of education prerequisite to admission at such institution."

(b) If a minor has lived for five or more consecutive years with relatives (other than parents) who are domiciled in North Carolina and if the relatives have functioned during this time as if they were personal guardians, the minor will be deemed a resident for tuition purposes for an enrolled term commencing immediately after at least five years in which these circumstances have existed. If under this consideration a minor is deemed to be a resident for tuition purposes immediately prior to his or her eighteenth birthday, that person on achieving majority will be deemed a legal resident of North Carolina of at least 12 months duration. This provision acts to confer in-state tuition status even in the face of other provisions of law to the contrary; however, a person deemed a resident of 12 months duration pursuant to this provision continues to be a legal resident of the State only so long as he or she does not abandon North Carolina domicile.

Lost but Regained Domicile. If a student ceases enrollment at or graduates from an institution of higher education while classified a resident for tuition purposes and then both abandons and reacquires North Carolina domicile within a 12-month period, that person, if he or she continues to maintain the reacquired domicile into re-enrollment at an institution of higher education, may re-enroll at the in-state tuition rate without having to meet the usual 12-month durational requirement. However, any one person may receive the benefit of this provision only once.

Change of Status. A student admitted to initial enrollment in an institution (or permitted to re-enroll following an absence from the institutional program which involved a formal withdrawal from enrollment) must be classified by the admitting institution either as a resident or as a nonresident for tuition purposes prior to actual enrollment. A residence status classification once assigned (and finalized pursuant to any appeal properly taken) may be changed thereafter (with corresponding change in billing rates) only at intervals corresponding with the established primary divisions of the academic year.

Transfer Students. When a student transfers from one North Carolina public institution of higher education to another, he or she is treated as a new student by the institution to which he or she is transferring and must be assigned an initial residence status classification for tuition purposes.

University regulations concerning the classification of students by residence, for purposes of applicable tuition differentials, are set forth in detail in *A Manual To Assist The Public Higher Education Institutions of North Carolina in the Matter of Student Residence Classification for Tuition Purposes*. Each enrolled student is responsible for knowing the contents of this Manual, which is the controlling administrative statement of policy on the subject. Copies of the Manual are available for review on request at the reference desk in Belk Library.

Student Welfare and Activities

Student fees support such services and activities as health care, student government, concerts and lectures, popular programs, forensics, dramatics, intramurals, student publications, attendance at all athletic events on campus, and transcript fees.

Rental of Textbooks

Undergraduate student fees include textbook rental entitling students to receive all hardback textbooks used in each course for which they register. Notebooks, workbooks, manuals, paperbacks, and the like are not included. These and other supplementary materials will be purchased by the student. At the end of each semester textbooks that are not needed further must be returned. A student who desires to buy the textbooks may purchase them at a reduced price. Graduate students purchase their textbooks. All textbooks are purchased in summer school.

Other Fees

Late payment of tuition and fees	\$20.00
Administrative withdrawal charge	20.00
Music: Applied Music courses	18.00 per credit hour
(The maximum music fee per student is \$36.00 per semester)	
Physical Education activity	
Bowling per course	8.00
Skiing, ice skating and, from time to time, other class offerings use privately owned off-campus facilities. A charge is made by these facilities.	
Student teaching and internships per semester hour	3.00
Orientation fee	20.00
Late Orientation Tests (each)	5.00
Returned check charge (each check)	10.00

Examinations:

The Counseling and Psychological Services Center administers the National Teacher Examinations, Miller Analogies Test, Graduate Record Examination, Graduate Management Admission Test, Law School Admission Test, and other examinations charging fees, when applicable, in accordance with the schedule of fees maintained in the Center.

Special Note

Before taking final examinations at the close of each semester, a student is expected to settle all accounts. A student may not register for a new semester until all charges have been settled and until all textbooks are returned to the University Bookstore. A student cannot receive a degree, certificate, or transcript of credits if any account or loan is delinquent.

Withdrawal

If a student formally withdraws from the University, refund will be made in accordance with the following schedule:

Before close of the registration period:

60 percent of tuition, fees, and room rent.

Within two weeks after close of registration period:

40 percent of tuition, fees, and room rent.

Within four weeks after close of registration period:

20 percent of tuition, fees, and room rent.

Withdrawal at any time will entitle the student to a refund for unused mealbooks, if applicable.

Refund calculation will be based upon the date of official withdrawal from the University.

Students who have prepaid tuition and fees but who have not completed registration for classes will be due a full refund if they have been determined to be academically ineligible to complete registration. Students not completing registration for other reasons will be due a full refund less any advance deposits made toward tuition, fees, and housing. Students who are suspended for disciplinary reasons or who do not formally withdraw are not eligible for a refund of tuition and fees. Students evicted from University residence facilities or who do not officially withdraw will not be eligible for a refund of unused portion of room and board.

Reduction in Academic Load

If full-time students reduce their academic loads to part-time before close of the registration period or if part-time students reduce their academic loads before close of the registration period, 60 percent of the difference between tuition for the original and revised academic loads will be refunded upon application.

Student Financial Aid

To apply for both academic scholarship and other financial aid administered by the University, an applicant must file an ASU Financial Aid Application and a need analysis form. A student wishing to be considered only for an academic award would need to submit only the ASU form. To ensure full consideration, a student must have these forms on file in the Financial Aid Office by March 15th. The need analysis should be filed by February 15th in order that ASU may receive the results by the required date. Late applications will be evaluated if there are available funds. The ASU form will be mailed to those students who request this application on their admissions form or who request the form from the ASU Financial Aid Office. The need analysis form is available from any high school guidance office.

In addition to academic scholarships, the University has grants, loans, and work opportunities for which a student may apply. Most of these programs are briefly described on the next two pages.

All undergraduate students applying for any of the need-based financial aid programs *must file for the Pell Grant*. This is accomplished by checking "yes" to this item on the need analysis form.

Information to Veterans

The University is approved for training of veterans under the US Veterans' Administration regular GI Bill (Chapter 34, Title 38 US Code), VA Vocational Rehabilitation for disabled veterans (Chapter 31) and schooling for the children, wives and widows of deceased or disabled veterans (Chapter 35), and Post-Vietnam Assistance Program (Chapter 32), and selected Reserve Educational Assistance Program (Chapter 106).

Also, the children of disabled or deceased veterans may receive payment of tuition, room, meals and other university fees under a scholarship administered by the North Carolina Veteran's Commission.

Persons who want to receive VA educational benefits under chapters 34, 31, 32, or 35 should process application forms at least 45 days prior to enrollment in order to receive sufficient benefits before registration to defray tuition and fees. After enrollment, VA benefits come on a monthly basis. Forms and information are available at the ASU Financial Aid Office, ASU, Boone, NC 28608.

Children of disabled or deceased veterans may inquire about the North Carolina scholarships by writing the NC Division of Veterans' Affairs, Raleigh, NC.

Student Employment Programs

Student employment programs are maintained to help students pay university expenses while attending classes full time. Students participating in the programs are employed in administrative offices, in colleges and academic departments, and in service facilities such as the bookstore, the library, and the food service areas.

The student employment programs consist of the Student Temporary Work Program and the College Work-Study Program. A student returning to school for the summer session only is not eligible to work on the College Work-Study Program.

These funds are used to assist students with short term emergency cash flow situations. Repayment is usually due within one month after disbursement and cannot be extended beyond the semester in which it is borrowed. No emergency loans are processed during the week of registration.

Generally, students may work up to 15 hours per week in university-operated work programs. Work schedules will be arranged by the student and work supervisor with the understanding that class schedules have first priority.

Student Loan Programs

Detailed information concerning student loan programs may be obtained from high school counselors or from the Director of Student Financial Aid. Available loan programs are as follows:

- The College Foundation, Inc.
- The National Direct Student Loan Program
- The NC Prospective Teacher Scholarship Loan Fund
- Guaranteed Loan Program (for out-of-state students)

University Student Loan Fund

Off-campus job information is provided by the Job Location and Development Service located in the Office of Career Planning and Placement in I.G. Greer Hall. The function of this office is to find off-campus jobs for enrolled students.

Grants in Aid and Special Talent Awards

In recognition of students with special talents, the University provides grants in fields of activity such as dramatics, art, forensics, industrial arts, music, and athletics. In addition, many departments have their own scholarship funds for which students should inquire by writing to the Department Chairperson. Athletes should write to the coach of a specific sport.

Supplemental Educational Opportunity Grants

This program is part of the Higher Education Act of 1965, with the purpose being to assist in making available the benefits of higher education to qualified high school graduates who can demonstrate financial need. Students who qualify may be eligible for a grant of up to \$2,000 per year for a period of four academic years. The recipient

must maintain satisfactory progress in his/her course of study and be a full-time student during the academic year. The student must also apply each year for this grant.

Pell Grant

All undergraduate students who have not received their first baccalaureate degree are eligible to apply for this program. Appalachian will not consider a student for any other federal aid until he/she has applied for this grant. This year, students may apply for the Pell Grant on either of the need analysis forms by following the directions on the form, or may use the Application for Federal Student Aid.

Minority Presence Grants

Under the Board of Governors general Minority Presence Grant Program, black students may be eligible for special financial assistance if they are residents of North Carolina, enrolled for at least three hours of degree-credit coursework, and demonstrate financial need.

North Carolina Student Incentive Grant

All North Carolina undergraduate students should have a copy of their need analysis sent to the NCSIG Program in addition to the university they plan to attend. By doing so, they will be considered for this grant program which requires "substantial financial need."

Scholarships

Appalachian offers a variety of general and departmental scholarships to both graduate and undergraduate students. For further information about available scholarships, contact the Director of Student Financial Aid, ASU, Boone, NC 28608, or call (704) 262-2190. Graduate students should contact the Graduate School Office, ASU, Boone, NC, 28608 or call (704) 262-2130 for scholarship information.

Chancellor's Scholarships

(Available only to incoming freshmen). University Honors annually offers 25 academic scholarships: 10 at \$2,000 and 15 at \$1,000. These are renewable to recipients for four consecutive academic years provided that they maintain a 3.40 grade point average. During the freshman year, scholarship holders are required to be enrolled in at least one Honors course each semester. Thereafter, they are expected and strongly urged to enroll in Honors unless there are compelling and acceptable reasons for not doing so. Students may choose which area to enter (English, History, Economics, or General Honors) and may change from semester to semester if they so desire.

Scholarships are awarded on the basis of evidence of high academic achievement and potential, ability to think and express oneself creatively, and capacity for leadership. A Faculty Honors Committee interviews and selects candidates. Announcements of most awards are made on or before March 1. Direct inquiries and your request for an application form to Coordinator, University Honors Programs, Appalachian State University, Boone, North Carolina 28608. Applications close January 31.

College Scholars Program

(Available only to incoming freshmen.) The College of Arts & Sciences offers scholarships of \$1000 to students who plan to major in one of the departments in the College of Arts & Sciences. (See page 61 for departments in this college.) Students must provide evidence of scholastic aptitude, maturity, and quality of character which projects a high probability of scholarship excellence.

Scholarships are renewable up to a maximum of four years. For further information contact Dr. Don Sink College of Arts & Sciences, ASU, Boone, NC 28608.

The College of Business offers the John A. Walker Scholarship of \$2500 per year, the Frank M. Payne Memorial Scholarship of \$1000 per year, and the Tom and Virginia Mosley Scholarship of \$500 to incoming freshmen who intend to major in an area of the College of Business.

Applicants are evaluated on the basis of academic achievement, extracurricular activities, and evidence of leadership and maturity.

Scholarships are expected to be renewable for three additional years provided a 3.25 grade point average is maintained and a major in the College of Business is continued.

For further information, contact Dr. Barry Elledge, Assistant Dean, Walker College of Business, ASU, Boone, NC 28608.

Freshman Scholarships in Teacher Education

(Available only to incoming freshmen.) The Reich College of Education offers scholarships of \$1000 to students who plan to major in a teacher education area. Scholarship applicants must provide evidence of scholastic merit, commitment to teaching, potential to be an effective teacher and demonstrated leadership. Recipients are selected by the Reich College Scholarship Committee who are appointed by the Dean of the College. Award announcements are made on or before March 15.

Scholarships are renewable for three consecutive years provided a 3.25 grade point average is maintained and a major in a field of education is continued.

For further information, contact Dr. Mae Reck, Reich College of Education, ASU, Boone, NC 28608.

College of Fine and Applied Arts

The College of Fine and Applied Arts offers competitive scholarships for students intending to major in one of the fine and applied arts. Particular emphasis will be placed on artistic talent. Scholarships are available in the fine arts of music, theatre, dance, art, and forensics. The applied arts include health, physical education, leisure studies, home economics and industrial education. For further information, contact Dr. Nicholas Erneston, Dean of the College of Fine and Applied Arts, ASU, Boone, NC 28608.

The Instructional Program

The instructional program at Appalachian State University is diversified, attempting to meet the needs of many types of students. In addition to the course offerings listed under each instructional department, students may elect to do independent study under the direction of selected faculty members, to participate in an internship, or to participate in the University honors program. Detailed information on each of these options is given in appropriate sections of this catalog.

A new catalog is issued biennially; and, while course offerings are fairly continuous from year to year, the faculty reserves the right to make changes in curricula, degree requirements, and academic policies. The information in any given catalog is, therefore, usually valid only for the two-year period of its issue, and is superseded by subsequent issues. Any interested person should consult the most recent issue of the University catalog for current information about the instructional program.

Any changes in degree requirements do not, however, affect a student already enrolled in a degree program. In those rare cases where specific required courses are no longer available, the dean's office will identify suitable substitutes which do not increase the overall credit requirements. All students may elect to graduate in accordance with the degree requirements as recorded in the catalog that is current at the time of their first registration or any subsequent edition (provided the student is enrolled during a period in which the catalog is in force) except that any catalog chosen must not be more than six years old. Students electing to graduate under a new catalog must meet all requirements of the catalog under which they wish to graduate subject to the exception noted above for those cases when specific courses are no longer available. In order to change the catalog under which they intend to graduate, students must notify the office of the dean of the college in which they are enrolled.

Changes in academic policies become effective to all students on the date approved for implementation.

The Board of Governors of The University of North Carolina is the governing body of Appalachian State University. The powers of the chancellor and the faculty are delegated by the board.

Registration at Appalachian indicates the student's willingness to accept both published academic regulations and rules found in official announcements of the University. In the

interest of all its students, Appalachian reserves the right to decline admission, to suspend, or to require the withdrawal of a student when such action is, by due process, deemed in the interest of the University.

Academic Policies and Regulations

Policies and Procedures Concerning the Release of Student Information

- I. Purpose and Scope of the Statement
 - A. Purpose—This statement establishes updated guidelines for the University on the matter of confidentiality of student records. It has been developed in the light of legislation concerning access to and release of information maintained in student records in institutions of higher learning. (The Family Educational Rights and Privacy Act of 1974.) Any questions on these policies should be referred to the University Registrar.
 - B. Scope—These policies cover all records maintained at the University. This means that they will apply to any student—current or former—who actually completed registration at one time.

- II. University Policy Regarding Confidentiality of Student Information.
 - A. In response to inquiries from the general public, such as prospective employers, credit investigators, etc., only the following directory information is released without the student's permission:

"the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, class schedule, and previous educational agency or institution attended by the student".

Any student who wants to make a specific request that directory information not be released should contact the Office of the Vice-Chancellor for Student Affairs on registration day of each semester.

- B. Transcripts are released *only* upon the *written* request of the student. Transcripts will not be released if the student is financially indebted to the University.
- C. A student has the right to inspect the contents of his/her educational records with the *exception* of documents submitted to the University in confidence prior to January 1, 1975. Transcripts in the folder from other institutions are property of ASU and will not be returned to the student or sent elsewhere at his/her request.
- D. Grade reports will be mailed directly to the student at his/her permanent address. If parents or guardians request academic or personal information other than that specified in statement IIA, the request may not be honored without the student's written permission *unless* the parent can present evidence of the student's being dependent upon the parent for support as defined by the Internal Revenue Code.

Degree Requirements

Students should refer to the requirements of their respective colleges for information about their courses of study and confer with their advisors whenever problems arise.

Students should pursue required courses in the suggested sequence. Failure to do so may lead to scheduling difficulties and students may find that the subjects for which they wish to enroll are either not available or closed to students with advanced standing.

Courses of Instruction

Courses are listed in numerical order in each department listing. Courses numbered 0001-0999 are remedial; 1000-1999 are usually offered for freshmen; 2000-2999 are usually offered for sophomores; 3000-3999 are usually offered for juniors; 4000-4999 are usually offered for seniors; 4500-4999 are usually offered for seniors and graduates; and 5000 and above are for graduate students. This does not preclude the possibility of students taking courses above the level of their classification, provided they meet the necessary prerequisite requirements and any special requirements of the degree granting college (see also Item 7 under Credit Limitations). Courses open to lower classes are also open to upper classes.

The figure in parentheses after the course title tells the credit in semester hours; for example, the figure (3) means three semester hours.

Semesters of the year in which the course is offered are represented by symbols: "F" for fall semester, "S" for spring semester and "SS" for summer session.

A hyphen in the course number, credit, and semesters of the year in which the course is offered indicates that the course extends through more than one semester and that the preceding semester must be completed before the following semester can be taken.

The comma in the course number, credit, and semesters indicates that the course is continuous but that one semester may be taken independently of another.

The semicolon in the semesters offered indicates that the course is a one semester course and is repeated in a subsequent semester. If the course is a two semester sequence, the semicolon in the semester offered indicates that all courses listed are normally taught in the semesters indicated. Special requirements for admission to a course are stated after the word *prerequisite*.

In stating departmental prerequisites, the following list of standard abbreviations will be used:

Accounting	ACC	Communication Arts	CMA
Anthropology	ANT	Computer Science	CS
Appalachian Studies	AS	Criminal Justice	CJ
Art	ART	Curriculum and	
Biology	BIO	Instruction	CI
Chemistry	CHE	Decision Sciences	DS

Driver and Traffic Safety		Latin	LAT
Education	TSE	Leadership and Higher	
Economics	ECO	Education	LHE
Educational Foundations	FDN	Leisure Studies	LS
English	ENG	Library Science	LIB
Finance, Insurance		Management	MGT
Real Estate	FIR	Marketing	MKT
Foreign Languages	FL	Mathematics	MAT
French	FRE	Military Science	MS
General Honors	GH	Music	MUS
General Science	GS	Philosophy and Religion	P&R
Geography and Planning	GHY/PLN	Physical Education	PE
Geology	GLY	Physical Science	PHS
German	GER	Physics and Astronomy	PHY
Health Education	HED	Political Science	PS
History	HIS	Psychology	PSY
Home Economics	HEC	Social Work	SW
Human Development and		Sociology	SOC
Psychological Counseling	HPC	Spanish	SNH
Industrial Education		Statistics	STT
and Technology	IET	University Studies	US
Language, Reading and			
Exceptionalities	LRE		

The administration reserves the right to withdraw any course for which there is insufficient enrollment.

Standards of Scholarship

In all work for a degree, scholarly performance is expected. The student is expected to demonstrate academic competence, intellectual honesty and responsibility, a willingness to do more than the minimum required, and the ability to think critically and constructively.

State statutes concerning standards of scholarship are as follows:

14-118.2. Assisting, etc., in obtaining academic credit by fraudulent means.

(a) It shall be unlawful for any person, firm, corporation or association to assist any student, or advertise, offer or attempt to assist any student, in obtaining or in attempting to obtain, by fraudulent means, any academic credit, or any diploma, certificate or other instrument purporting to confer any literary, scientific, professional, technical or other degree in any course of study in any university, college, academy or other educational institution. The activity prohibited by this subsection includes, but is not limited to, preparing or advertising, offering, or attempting to prepare a term paper, thesis, or dissertation for another and impersonating or advertising, offering or attempting to impersonate another in taking or attempting to take an examination.

(b) Any person, firm, corporation or association violating any of the provisions of this section shall be guilty of a misdemeanor punishable by a fine of not to exceed five hundred dollars (\$500.00), imprisonment for not more than six months, or both. Pro-

vided, however, the provisions of this section shall not apply to the acts of one student in assisting another student as herein defined if the former is duly registered in an educational institution and is subject to the disciplinary authority thereof. (1963, c.781; 1969, c. 1224, s.7.)

Credits

Appalachian operates on the semester system with the year divided into two semesters and a summer session, which is divided into terms of varying lengths. The unit of credit is the semester hour, and the number of semester hours credit for each course offered by the University is given in the sections of this catalog where courses of instruction are listed.

Registration

The majority of students entering the University do so at established semester periods. To provide for the orderly processing of these registrations, specific times have been set by the Registrar's Office as the "beginning" and "ending" of the registration period. Students are expected to register at the time specified by the Registrar's Office. Registration schedules are announced and registration materials are available in the Registrar's Office. A fee is charged for late registration. The late fee for registration will also be assessed on accounts where a check, used to pay registration charges, is returned due to "insufficient funds" or other reasons.

The University recognizes that there are those who are unable to register at established semester periods. Appalachian State University provides for each student to register at any time during the semester (subject to special requirements of the college in which the course is housed) and commence coursework, which is taken primarily on an independent or individual study basis. (For an explanation of independent study and individual study, refer to those sections in the index). For complete details regarding this registration procedure, contact the Registrar's Office. No late fee is attached to such special registration.

Grades and Grade Points

At the end of each grading period grades are given in each course by letters which indicate the quality of work done by the student.

- | | |
|----|--|
| A | Excellent, 4 grade points per semester hour. |
| A- | Excellent, 3.7 grade points per semester hour. |
| B+ | Above Average, 3.3 grade points per semester hour. |
| B | Above Average, 3 grade points per semester hour. |
| B- | Above Average, 2.7 grade points per semester hour. |
| C+ | Average, 2.3 grade points per semester hour. |
| C | Average, 2 grade points per semester hour. |
| C- | Average, 1.7 grade points per semester hour. |
| D+ | Below Average but Passing, 1.3 grade points per semester hour. |

D	Below Average but Passing, 1 grade point per semester hour.
D-	Below Average but Passing, .7 grade point per semester hour.
F	Failure, 0 grade points.
P	Pass, 0 grade points (used only for courses taken on Pass-Fail basis).
F*	Failure, 0 grade points (*indicates only that the course was taken on the Pass-Fail basis; this grade is equivalent to the F above).
AU	Audit, no credit
I	Incomplete, because of sickness or some other unavoidable cause. An I becomes an F if not removed within the time designated by the instructor, not to exceed a year, except that all incompletes must be removed at the time of graduation. An incomplete should not be given merely because assignments were not completed during a semester.
IP	In Progress (indicates student has registered for thesis)
NR	Grade Not Reported (hours not counted in computing GPA).
W	Withdrawal, either from a course or from the University.
WF	Withdrew Failing, course dropped with failing grades more than five weeks after registration closes.
@F	Administrative F
S	Satisfactory, 0 grade points (used for student teaching, screening proficiencies, and specially designated courses in the curriculum).
U	Unsatisfactory, 0 grade points (used to indicate unsatisfactory performance in student teaching, screening proficiencies, and specially designated courses in the curriculum).
WU	Withdrew unsatisfactory.

All official drops and withdrawals are recorded on change cards, which, when completed and approved, must be filed in the Registrar's Office.

Pass-Fail Grading System

Any undergraduate student who is 1) full-time (registered for 12 or more hours), 2) has attained at least sophomore standing (earned at least 28 hours), and 3) has a minimum grade point average of 1.75 may elect to take one course each semester under the Pass-Fail grading system, **not to exceed a maximum of six (6) Pass-Fail courses while enrolled at the University**. Any undergraduate course may be chosen under this option, **except those courses used to comprise the total hour requirements of the student's major, minor, and general education requirements. It is the responsibility of the student to make sure that he/she does not violate this limitation**. Graduate students may not elect the Pass-Fail option. If a course taken under the A-B-C-D-F grading system is repeated, it must be repeated under the A-B-C-D-F system.

A student who elects the Pass-Fail option at the beginning of a term will be allowed to drop the option sometime after mid-term examinations and be given the end-of-course letter grade earned. There will be a time period specified by the Registrar for dropping the Pass-Fail option, and this time period will be announced in the Schedule of Classes each term. However, once the Pass-Fail system is elected for a given course, a change to another course may not be made.

A grade of "P" means that the student's grade was equal to a "D" or above on a conventional grading scale. The hours earned will count toward graduation but the grade will not be computed in his/her grade-point average. A grade of "F" means that the student failed the course. No credit is earned, but the grade of "F" is computed in the student's grade-point average as an "F".

Students should also be aware of the disadvantages which could result from using the Pass-Fail option (i.e., many graduate schools will not accept transcripts containing a "P" notation.)

In order to choose the Pass-Fail option in a course, the student will get a special Pass-Fail form from the Registrar's Office. It must be completed and turned in to the Registrar's Office prior to the close of the period during which a course may be added.

Grade-Point Average and Repeat Policy

The grade-point average (GPA) is a general measure of the quality of a student's work. The GPA is normally determined by dividing the total number of grade-points earned by the total number of credit hours attempted.

Students may, for a variety of reasons, elect to repeat a course. If a student so elects, the following policies will govern the awarding of credit and the computation of his or her GPA:

- 1) Credit hours earned in a particular course will not be awarded more than one time; i.e., if a course in which credit hours have been earned is repeated, additional credit hours will not be awarded.
- 2) When a course is repeated, only the initial attempt can be exempted from computation in the GPA.
- 3) A student is allowed a maximum of five repeated courses in which the initial attempt is exempted from GPA computation.
- 4) A student who wishes to have a course exempted from GPA computation must obtain a "Repeat Card" from the Registrar's Office. The "Repeat Card" will stipulate the course to be exempted and must be submitted to the Registrar's Office by the end of the "Drop" period of the academic term in which the course is first repeated. Once submitted to the Registrar's Office, a "Repeat Card" cannot be withdrawn.
- 5) A course may not be repeated if the content has changed substantially, or if the number of credit hours assigned has been reduced.

Academic Load

An undergraduate student usually takes from 15 to 17 hours a semester. In special situations, an undergraduate student may take more than 17 hours a semester. To do this students must have prior approval of the dean of the college in which they are enrolled. Registration for less than 12 hours places the student on part-time status. For full-time resident credit, students must be registered for a minimum of nine semester hours.

An undergraduate student must take 12 semester hours during a regular semester (and if in summer school, six semester hours each four week term) in order to be a full-time student.

The maximum course load for graduate students during the regular academic year is 15 hours per semester for students without assistantships, and 9-12 hours for those holding assistantships. For the summer session the course load is six semester hours for a four-week term, nine for a six-week term, and two for a two-week term. Graduate degree candidates may not earn more than 12 hours for the entire summer.

For full-time resident credit, students must be registered for a minimum of nine semester hours.

Residence

Students must complete at least 30 semester hours at Appalachian, including eight hours in their major and four hours in their minor, and make at least a 2.00 average overall and in the major or area of specialization on work taken at Appalachian. The senior year (two semesters) must be spent in residence at the University. Requirements for a bachelor's degree must be completed within 11 semesters of residence or the equivalent.

Credit Limitations

1. A maximum of 20 semester hours of field based and/or correspondence work from recognized institutions may be credited toward meeting the requirements for graduation. Some correspondence courses are offered by the University. Before registering at another accredited institution for a correspondence course to be transferred to Appalachian, students must have the written permission of the dean of their college and the chairperson of the department in which the course is listed. In order to obtain this permission, the student must first secure the proper form from the Registrar's Office to be signed by the dean involved. The combined load of residence courses and correspondence courses may not exceed the maximum load allowed.
2. Except for physical education majors, not more than six hours in physical education activity courses may be included within the 122 semester hours required for graduation.
3. A candidate for the Bachelor of Arts degree may count not more than a total of 40 hours above general education requirements in any one discipline.
4. Validation of credits earned more than 10 years prior to the date of graduation may be required if and when they are submitted to fulfill degree requirements.
5. All baccalaureate degrees granted by Appalachian require the completion of a **minimum of 60 semester hours at a senior college or university.** (The six semester hours credit in military science awarded to those who have satisfactorily

completed at least four months of military service is not applicable toward meeting this requirement.)

6. Students registered at Appalachian may not be enrolled simultaneously at another institution except with permission from the dean of their college. Transfer work may be accepted from other accredited institutions. Before registering for such courses, students must have written permission of the dean of their college. In order to obtain permission students must first secure the proper form from the Registrar's Office to be signed by their dean.
7. Seniors with a grade point average of 3.00 or above may, with written permission from the course instructor, chairperson of the department offering the course, and the Graduate Dean, be permitted to take one or more graduate courses for **undergraduate** credit. Credit earned in this manner will be used to meet baccalaureate degree requirements and may not be applied toward a graduate degree.

Seniors with a grade point average of 3.00 or above desiring to enroll in graduate level courses for **graduate** credit to be applied to a graduate degree may do so provided they have: (1) made application for admission to the Graduate School; (2) made application to take the GRE or GMAT; and (3) obtained written permission from the course instructor, chairperson of the department offering the course, and the Graduate Dean.

8. A candidate for or a holder of a bachelor's degree may earn a second bachelor's degree by taking additional work of at least 30 semester hours in residence and completing all requirements for the degrees. Credit by examination may not be used to satisfy the additional 30 semester hour requirements.

Absences From Class

General Attendance Policy

It is the policy of Appalachian State University that class attendance is considered to be an important part of a student's educational experience. Students are expected to attend every meeting of their classes, and are responsible for class attendance. No matter what bases exist for absence, students are held accountable for academic activities, and faculty may require special work or tests to make up for the missed class or classes. Faculty, at their discretion, may include class attendance as a criterion in determining a student's final grade in the course. On the first day of class faculty must inform students in writing of their class attendance policy and the effect of that policy on their final grade. If class attendance is to affect a student's final grade, then this statement must be a part of the course syllabus distributed to each student.

Attendance Policy Relating to Participation in University Sponsored Activities

As an integral part of the academic program at Appalachian State University, the university sponsors and otherwise supports co-curricular programs, athletic programs, and other out-of-class activities such as field trips. Student participation in such activities occasionally necessitates that a student may miss one or more meetings of his or her classes.

A student who expects to miss one or more class meetings because of participation in a university sponsored activity has several responsibilities: The student (in person) will notify the instructor in advance of any absence; the student is expected to complete all work missed by making up the work in advance or by completing any compensatory assignment which may be assigned by the instructor; the student is expected to maintain satisfactory progress in the course; and the student (otherwise) is expected to maintain satisfactory attendance in the class if so required. In the event that a student anticipates that participation in a university sponsored activity will require missing more than 10% of the class meetings, the student is required to discuss this matter with his or her instructor at the beginning of the semester and may be advised to drop the course or to transfer to another section.

If the above responsibilities are met, it is expected that the instructor will excuse the absence and permit the student to make up missed work in whatever manner the instructor deems appropriate.

Change of Course

Students may add courses or change sections until the close of registration. To add a course, students must complete a drop-add form after it has been determined that the course is open. This is accomplished at the Registrar's Office. Students are given a duplicate copy of the drop-add form. This copy verifies enrollment in the class and must be presented at the Registrar's Office in case they later wish to drop the class.

There will be a five-week drop period from the beginning of classes. The cut-off date for the free drop period will be announced by the Registrar in the Schedule of Classes Bulletin each semester. **After this date no drops will be allowed except for exceptional circumstances and with the signatures of the instructor, chairperson, and the approval of the dean of the college in which the course is offered.**

Any drops approved for exceptional circumstances will not be used in computing the grade point average and will not be recorded on the permanent record.

Prior to the close of registration a course may be dropped by completing a drop form at the Registrar's Office. If the course and section being dropped are not printed on the student schedule card, the student must present the duplicate copy of the drop-add form showing original registration for the course.

After the close of registration, but before the end of the five-week free days period, a course may be dropped or changed from credit to audit *with no academic penalty*. To accomplish this, the student must contact the Registrar's Office, in person, and complete the necessary forms.

Courses not officially dropped by the student at the Registrar's Office are recorded as F, and the hours are counted in computing the grade-point average.

Withdrawal from the University

A student who wishes to withdraw from the University for any reason must make arrangements with the Office of Student Affairs prior to withdrawal. Graduate students must contact the Dean of the Graduate School.

Students who withdraw because of illness or extreme emergency will receive grades of W. Students who withdraw for reasons other than illness or extreme emergency after the five-week free drop period will receive a grade of F in each course taken.

Students who withdraw unofficially will receive grades of F.

Course Examinations

All scheduled examination periods will be met at the assigned time. A final examination period is provided during the final week of each semester. After the schedule for examinations has been made, an instructor may NOT change the date or time of an examination without permission of the department chairperson and dean. Instructors determine how they will use the assigned period, but all scheduled examination periods will be met at the assigned time. A student may take an examination outside of the scheduled time only by permission of the instructor of the course. Permission is granted only in case of emergency.

A student who is absent from a final examination because of an emergency takes the make-up examination at the convenience of the instructor.

Major Tests and Assignments

Prior to Exams

It is strongly recommended that no tests or major assignments not included on the syllabus be made during the five class days prior to the final exam period. Be it clarified that this policy should not include make-up tests.

Grade Reports

Final semester grades are reported to the Registrar's Office not later than noon of the day following the last day of the semester. All instructors post the grades of their students. At the end of each semester, a grade report is sent to each student.

Classification

At the end of each semester students are classified on the basis of semester hours. All students who are admitted as regular first-year students or who have completed less than 28 semester hours are classified as freshmen.

Students who have completed at least 28 semester hours are classified as sophomores.

Students who have completed at least 60 semester hours are classified as juniors.

Students who have completed 90 semester hours are classified as seniors.

Academic Suspension

To continue at Appalachian a student must have the following grade-point average at the beginning of the semesters indicated:

	G.P.A.
Semester 2	1.00
Semester 3	1.50
Semester 4	1.75
Semester 5	1.90
Semesters 6, 7, 8	2.00

Students who do not meet the above eligibility requirements will be placed on academic probation for the next semester. While on probation a student will, within the limits prescribed below, be allowed to enroll. The dean of each college, however, may attach certain requirements before enrollment on probation is approved. Requirements may include special advising sessions, limitation on hours, repeating courses, developmental courses, etc. **However, students classified as freshmen and sophomores may use academic probation no more than twice. Students classified as juniors and seniors may use academic probation only once provided they have not previously used the maximum number at the lower division level. In no case will students classified as juniors and seniors be allowed more than one term of probation. Transfer students will follow these same guidelines.** Transfer students who enter ASU at the upper division level are eligible for only one term of probation. After the academic probation term(s) have been exhausted the students **only recourse** for readmission is to restore eligibility in the summer school at ASU. The summer session will not count as a semester in residence for the purpose of computing eligibility for continued enrollment or readmission. Grade-point averages may not be raised by correspondence or credit from another school. Requests for readmission following suspension for academic reasons should be sent to the dean of the college involved. Approval of requests is not automatic and will depend not only on academic records but also on evidence of growth and maturity.

Field-Based Option

In fulfilling its obligation as a regional university, Appalachian State University provides an opportunity for persons seeking a degree to pursue the degree in field-based programs established by special arrangement. Designed primarily for other than full-time students, the field-based degree program provides the opportunity for such persons to extend or update their academic credentials with only short, conveniently scheduled, on-campus experiences. The bulk of the program is delivered close to the community

that has requested and arranged for the field-based option. For details regarding these degree programs, contact the chairperson of the department in which the degree program is offered.

Independent Study

Independent study is the term applied to the study of a subject not listed in the regular curricular offerings. Under the independent study program a student designs a project and then individually pursues the study under the auspices of an instructional staff member who serves as a consultant for the student during the course of the study. The vehicles for this are course numbers 2500, 3500, 5500, and 6500 depending on the level of the student. **For information on independent study, students should consult the dean of their college or the chairperson of the department in which the independent study is to be done.**

Anyone seeking to pursue independent study must be a candidate for a degree at Appalachian or must be working for credit for the renewal of a teaching certificate.

Individual Study

Individual study is the pursuit of a regularly listed course by a student without attending classes on a regular basis. The student who wishes to pursue a course by individual study will secure the permission of the chairperson of the department in which the course is offered.

Anyone seeking to pursue individual study must be a candidate for a degree at Appalachian or must be working for credit for the renewal of a teaching certificate.

Instructional Assistance Program

The instructional assistance program is designed for students interested in participating in, for academic credit, supervised experiences in the instructional process on the university level through direct participation in classroom situations. Students with junior or senior standing are eligible to participate in this program. **For further information the student should contact the chairperson of the department in which he/she wishes to engage in instructional assistance.**

Credit by Examination

Not all courses are amenable to credit by examination, but many are. Students who wish to challenge a regularly listed course should consult with the instructor responsible for teaching the course and with the department chairperson. If arrangements can be made, a fee of \$20.00 is charged for such examinations and a receipt from the Cashier's Office must be shown to the department chairperson before final approval can be given. If the examination is passed, credit without grade will be noted on the student's transcript. If the examination is not passed, no notation is made on the

transcript. In the case of freshmen who take advanced placement examinations during the freshman orientation period, the fee is waived. **Credit by examination may not be used to repeat a course.**

Anyone seeking to pursue credit by examination must be a candidate for a degree at Appalachian or must be working for credit for the renewal of a teaching certificate.

Credit for Prior Life Experience

In exceptional cases credit can be awarded for prior non-college-based learning, if the credit sought is related to the student's degree program (i.e. general education, major or certification requirements). Assessment of prior learning can commence only after a student has been admitted to the university.

The student will first meet with a designated counselor who will help in defining the areas or disciplines in which appropriate creditable learning may have occurred. Actual assessment is done by a faculty member in the appropriate area, for which a fee will be charged.

Persons interested should see the Dean of the General College.

Veterans' Academic Credit

ASU grants eight semester hours of academic credit to most veterans including six semester hours in Military Science (ROTC) and two hours in physical education. The University may grant specific course credit for completion of certain types of military schools and for some USAFI and CLEP work. Information on veterans' academic credit is available at the Registrar's Office.

Honors

To encourage scholarship, the University officially recognizes students who distinguish themselves in academic pursuits. Honors Day is observed for all students qualifying for scholastic honors, and each honor student is awarded a certificate.

Alpha Chi, a national scholastic fraternity, is open to not more than the top ten percent of the junior and senior classes who have a grade-point average of not less than 3.50. Phi Kappa Phi, a national scholastic fraternity, honors outstanding scholarship among graduating seniors in each of the colleges who have attained at least a 3.70 grade point average. Occasionally, Phi Kappa Phi taps several outstanding junior scholars for membership.

Dean's List

Any semester a student who carries at least 12 hours of work on which grade points may be computed and who attains a grade-point average of 3.25 or better is placed on the Dean's List of honor students for that semester.

Honor Teaching

A student who shows exceptional initiative, scholarship, and excellence in student teaching may be designated and recognized as an Honor Teacher. The honor will be entered on the student's official record.

Graduation With Honors

To be eligible for graduation with honors, a student must complete a minimum of four semesters or 58 semester hours in residence at Appalachian. A grade-point average of 3.45 is required for graduating *cum laude*; a grade-point average of 3.65 is required for graduating *magna cum laude*; and a grade-point average of 3.85 is required for graduating *summa cum laude*.

Graduation

Degrees are conferred at the close of each academic term (fall, spring, summer): Candidates for baccalaureate degrees and/or teaching certificates must file applications for degrees and North Carolina certificates on forms provided by the Registrar on registration day of the semester in which graduation requirements will be completed. At the time of filing the application all requirements except current work should be completed.

The University has one formal commencement ceremony per year which is held at the end of the spring semester. All students who have received degrees during the preceding summer and fall terms are invited to attend. Students graduating in the spring are expected to attend unless they apply to graduate *in absentia*.

Transcripts

Transcripts **must** be requested **in writing** from the Registrar's Office. **A charge** of \$2.00 per copy will be made for official transcripts; there is no charge for unofficial transcripts. Transcripts (official or unofficial) **will not** be issued to students having unsettled accounts with the University.

The General College

O.K. Webb, Jr., Dean

C.D. Smith, Assistant Dean

The General College supervises and administers academic advising, student academic programs, and the general education curriculum for students at the freshman and sophomore levels. It has responsibility for the administration of Interdisciplinary Studies, including Watauga College, the B.A. in Interdisciplinary Studies and General Honors. The General College also has responsibility for the Learning Assistance Program, University Honors, and the Office of International Studies.

The General College provides an academic orientation program for all new undergraduate students prior to their initial enrollment at ASU. The program utilizes ASU faculty members, staff, and upper-class students in providing information on academic programs, placement testing, advice on course scheduling, university policies and procedures and academic support services. Orientation services take place during the summer and prior to the beginning of each semester.

All freshman students entering the University are enrolled in the General College. Transfer students who do not meet the admission requirements of a degree-granting college enroll in the General College until such requirements are met.

Although the General College is responsible for administering its students' academic affairs, policy decisions in such matters are made in cooperation with the dean of the college offering the courses in question.

Advisors are drawn from the academic faculties, and they help students plan academic programs. Academic advising is mandatory during all semesters in which a student is in the General College.

While in the General College students take both general education courses and preparatory courses for specialized training in their major and minor fields. It is important that students be familiar with the degree requirements for the particular college from which they plan to graduate. The specific requirements and course patterns for the different degrees are given in the sections of this catalog referring to the colleges which grant the degrees. Students are advised to consult carefully these sections as they plan their program for the four years.

Students may officially declare their major and have their advising records moved to their degree-granting college when they have earned at least 28 semester hours, completed English 1000 and 1100 and have a 2.00 cumulative grade point average. Even though the student has not met all requirements for admission to the degree-granting college at this point, they are provisionally accepted for advisement and record keeping purposes. This enables the student to have earlier contact and identification with the faculty and students in the department of their intended majors.

General Education

Courses in communication, humanities, mathematics, social science, natural science, behavioral science, and physical education are designed to give a student competence in communications and logical thinking, a broad acquaintance with the various components of human knowledge, an understanding of our cultural and social heritage, an opportunity to develop value judgments and constructive attitudes, and the ability to function purposefully in a democratic society.

General education requirements comprise approximately one-third of the total credit in all bachelor's degree programs. Except for English 1000-1100, which should be taken during the first year, all other general education requirements may be completed at any time prior to graduation. Students are encouraged to spread general education courses throughout their undergraduate curriculum rather than to concentrate them all in the first two years.

For all bachelor's degrees, a student shall complete the following requirements in general education:

- a . English 6 s.h.**
English 1000-1100 required.
- b . Humanities 12 s.h.**
Courses must be elected from at least three areas listed below. One of the courses must be literature and one must be from the fine arts (art, communication arts or music). **Courses approved for literature are marked with an asterisk.**
Art 2004, 2011, 2012, 2013, 3002, 4002
Communication Arts 2011, 2212, 2406, 3210, 3212, 4406
English, any course in literature at the 2000 level or above.*
English 2170 (Counts as a separate area)
French 3010*, 3020*, 3050, 3060, 4010*
German 3015*, 3025*, 3050, 3060
Latin 2010, 3010*, 3020*, 4010*, 4020*
Music 2011, 2012, 2013, 2014; Music Majors Only: 2611, 2612, 3611, 3612;
Elementary Education Majors Only: 2020
Philosophy, any course subject to stated prerequisites.
Religion, any course subject to stated prerequisites. The following satisfy the literature requirement: 2010*, 2020*
Spanish 3015*, 3025*, 3030*, 3045, 3050
University Studies—Those designated as humanities; observe prerequisites
- c . Social Sciences 12 s.h.**
 - (1) History 1101-1102 required.
If students have completed a year of European or world history in high school with an average of B or better, they may meet the general education requirement in history by electing History 2301-2302 or 2401-2402, or 2421-2422.
 - (2) In addition two courses must be selected from the list below. The courses must be from different areas.

Anthropology, any course, except Anthropology 1230, 2200, and 4750, subject to stated prerequisites
 Economics 1010, 2030, 2040, 2510, 2515
 Geography 1010, 1020, 3210, Planning 2410
 Political Science, any course subject to stated prerequisites
 Psychology 2201
 Sociology, any course except 3885, subject to stated prerequisites
 University Studies—Those designated as social science; observe prerequisites

- d . Biological and Physical Sciences 6-8 s.h.**
 Six to eight semester hours of the same science are required. Selections will be from one of the sequences listed below, or from six-eight semester hours approved by the appropriate departmental chairperson.
 Biology 1101-1102;
 Chemistry 1101-1102; 1101-1110;
 Geology 1101-1102, 1101-1103;
 Physical Science 1001-1002;
 Physics and Astronomy 1001-1002; 1101-1105; 1101-1106; 1103-1104; 1150-1151
- e . Mathematics 4 s.h.**
 Mathematics 1010, 1020, 1025, 1030 or 1110
- f . Physical Education 2 s.h.**
 Physical education activity courses, numbered 1000 thru 1082 only

Further requirements for the degrees are listed under the programs of the degree granting colleges.

Interdisciplinary Studies

T. Marvin Williamsen, Coordinator

Interdisciplinary Studies began at ASU in response to recognition that the major problems confronting us today are most appropriately investigated by bringing together the knowledge and know-how of a variety of disciplines. Well-trained generalists can be helpful in complex decision making and can fit well into many different types of jobs. Aside from this recognized need, Interdisciplinary Studies brings students and faculty together to interact on topics of mutual interest. Whether these programs are today called cross-disciplinary, interdisciplinary, or multi-disciplinary, their aim continues to be to make available for students and faculty members a forum of discussion in different settings. These settings are General Honors, Watauga College and Interdisciplinary Majors and Minors.

The continued appeal of Interdisciplinary Studies results from the great variety of courses offered in its programs. This variety allows faculty members and students to

deal with topics that are not only relevant to them but are also crucial for dealing properly with the future of each as an individual and all as a group.

General Honors Program

James W. Stines, Director

General Honors is a program created especially for students who have demonstrated a high level of academic promise and motivation. It offers four courses designed to serve as replacements for twelve hours of the total of twenty-four hours of general education requirements in the Humanities and Social Sciences areas. Classes include fewer than twenty invited participants, and they are conducted under the guidance of two faculty members who represent diverse academic areas. The courses are interdisciplinary in nature and are intended to exhibit ways in which two or more fields of study bear upon the subject matter. The faculty is selected on the basis of demonstrated excellence in teaching and scholarship.

The sequence begins with a course which focuses upon what it may mean to be human, moves through courses which examine human culture and the place of individuals within it, and ends with a course which speculates on the shape of the human future. The purpose of the sequence is to introduce students to basic concerns of the humanities and social sciences by means of the interdisciplinary approach.

Watauga College Residential Program

Kay Smith, Director

Watauga College is an on-campus residential college program offering interdisciplinary course work for freshmen and sophomores to fulfill the general education requirements in English, the humanities, and the social sciences. Students participating in the program can normally complete the University requirements in these areas in three semesters, but may enter or leave the program according to their academic needs. Required courses in mathematics, physical education, and the sciences are taken through the regular curriculum, as are major-related courses. Students live together in the same residence hall to permit emphasis on integrating the academic program with students' personal and social development. Participation in Watauga College does not exclude participation in any other special program at ASU. For more information contact the Director of Watauga College.

Selected Topics

Leslie E. Gerber, Coordinator

Each semester, the Interdisciplinary Studies Selected Topics program offers highly topical courses of an inherently cross-departmental nature to the campus community. By means of this program, ASU professors may team with their colleagues from different areas to explore together issues and subjects of mutual interest. The emphasis is

on relevant, experimental, and imaginative subject matters and pedagogies. While some courses may be taught more than one semester, the program's philosophy stresses variety and constant change. "The Vietnam War," "Women and Sports," "Creativity," "Mysticism East and West," "Popular Culture Studies," "Films from Fiction"—these recent courses typify the spirit and ethos of the program.

Interdisciplinary Majors

Leighton R. Scott, Advisor

The B.A. in Interdisciplinary Studies Degree is designed for those students whose educational goals would not be attained by their following existing baccalaureate degree programs. This degree program exists to serve those students whose unique educational objectives suggest a cross-departmental curricular strategy. It is administered through the General College.

In this program, students may plan their own majors, selecting advanced courses from a variety of departments. Such students do not, therefore, need to fulfill the requirements laid down for any of the established major programs. Rather, they must meet the requirements stipulated by the Program of Study Contract. It must be stressed that the Interdisciplinary Degree is not an option for students who wish to avoid the responsibility of specialization. On the contrary, the program offers itself mainly to students whose special interests are so inherently interdisciplinary as to preclude a purely departmental approach.

To be admitted to the Interdisciplinary Studies program as a candidate for the B.A. degree a student must have:

1. Completed a minimum of 28 semester hours and be eligible to enter a degree-granting college.
2. Achieved a grade-point ratio of at least 2.00 (which must be maintained).
3. Completed ENG 1000 and 1100.
4. Completed and signed the "Program of Study Contract" with the approval and signatures of a member of the faculty as principal advisor and of the advisor of the program.

To earn the Bachelor of Arts in Interdisciplinary Studies the student must meet the following requirements:

1. Completion of at least 122 semester hours with an overall grade-point average of at least 2.00. A transfer student must have an overall grade-point average of at least 2.00 on all work at Appalachian State University.
2. Completion of all the general education requirements.
3. Completion of six semester hours of a second year of foreign language or higher.
4. Admission into the Interdisciplinary Studies program prior to completing the last 30 semester hours according to the approved contract before graduation.

5. Achievement of an overall grade-point average of at least 2.00 on all work in the approved program of study.
6. The duly approved "Program of Study Contract" must consist of a minimum of 30 semester hours, of which 20 semester hours shall be at the 3000 level or above. General education and foreign language requirements count as a part of that 30 hours only when they form an integral part of the approved program, i.e., a foreign language taken to satisfy B.A. degree requirements cannot be included in the 30 semester hours.
7. The students admitted to the Interdisciplinary Studies program must secure approval for any subsequent additions or changes in the "Program of Study Contract" from the advisor(s) concerned and the Director of Interdisciplinary Studies.
8. Completion of electives to a minimum of 122 hours.
9. Completion of residence requirements.
10. Compliance with regulations concerning satisfactory citizenship and settlement of all expense accounts.
11. Recommendation of the faculty.

International Economics and Business Options

(For a description of this program, refer to the section in the index.)

Science

(For a description of this program, refer to the section in the index.)

Social Science

(For a description of this program, refer to the section in the index.)

Interdisciplinary Minors

Appalachian Studies

(For a description of this program, refer to the section in the index.)

Black Studies

The Black Studies minor is offered as a start in meeting the needs of black students who seek to explore their heritage and non-black students who want to understand something of the black experience. The curriculum draws on a holding of nearly 2,000 books and periodicals in Belk Library and presently includes 28 semester hours of offerings. The minor will consist of 16 semester hours chosen from among the 28. Other courses deemed relevant by the student may count toward the minor upon approval from the Dean of the General College.

Courses approved for the minor include: ANT 3530 (Selected Topics); ENG 2120 (Black Literature); HIS 2421, 2422 (History of Africa); HIS 3230 (Recent U.S. History); HIS 4220 (History of the South); P&R 2030 (Islam); PS 4540 (Regional Political Patterns: Government and Politics of Africa South of the Sahara); SOC 4560

(Race and Minority Relations); Independent Study (up to four hours for credit toward minor).

Community and Regional Planning

(For a description of this program, refer to the section in the index.)

Gerontology

(For a description of this program, refer to the section in the index.)

Latin American Studies

(For a description of this program, refer to the section in the index.)

Women's Studies

Margaret McFadden, Coordinator

A student may earn an undergraduate minor in Women's Studies by successful completion of an Interdisciplinary program of 15 semester hours. Each student is required to take "Women in the Western World" (HIS 3530) and one interdisciplinary Women's Studies course (US 3530), preferably "Introduction to Women's Studies"; as well as nine additional hours, selected from those listed. Substitutions may be made with the approval of the coordinator; for example, "The American Women: A Social and Cultural History" may be substituted for "Women in the Western World." All courses counting toward the minor must be at the 2000 level or above.

1 . Required courses

- a. History 3530 Women in the Western World (or
"The American Woman: A Social and Cultural History") 3 s.h.
- b. One Interdisciplinary Women's Studies course: 3 s.h.
University Studies 3530 Selected Topics (recent offerings: "Introduction to Women's Studies," "Woman as Image and Image-Maker," "Women and Film," "Women and Sports," "Appalachian Women," "Women and Work," "Sex Roles, Sexuality and Media," "Feminism and Cultural Analysis," etc.)

2 . Electives

- a. Sociology 2850: "Sex Roles" 3 s.h.
- b. Anthropology 3730: "Women in Cross-Cultural Perspective" 3 s.h.
- c. Psychology 3530, Selected Topics: "The Psychology of Sex Role Differences," etc. 3 s.h.
- d. English 3530, Selected Topics: "Women Poets," "Literary Women, Fiction by Women," etc. 3 s.h.
- e. Art 3530, Selected Topics: "Woman as Image and Image-Maker," "Women in Art," "Women and Media," etc. 3 s.h.
- f. Philosophy/Religion 3530, Selected Topics: "Philosophy/Religion and Sexuality," etc. 3 s.h.
- g. HED 3530, Selected Topics: "Women's Health," etc. 2-3 s.h.
- h. Other University Studies 3530, Women's Studies Courses 3-6 s.h.

3 . Other electives will be added as the program develops.

Courses of Instruction in General Honors

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1510. Humans: The Given/(3).F.

A study of the human condition from the perspective of the humanities and of the physical and social sciences.

1511. Cultural Pluralism/(3).S.

A study of the diversity of human culture, its sources, and its consequences for human behavior and human organization.

2500. Independent Study/(1-3)F;S;SS.

2510. Great Humans in Their Cultural Context/(3).F.

A study of major figures in history which emphasizes their relationships to the historical and cultural conditions of their times.

2511. Futures/(3).S.

An examination of possible human futures based on the projections of various disciplines and on potential definitions of the human which have emerged from the courses in the sequence.

3500. Independent Study/(1-3)F;S;SS.

3520. Instructional Assistance/(1)F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3)F;S. On Demand.

Courses of Instruction in Interdisciplinary Studies

(For a description of the course abbreviations used in the following list of courses, see page 36.)

Interdisciplinary Studies offers courses of a multi-disciplinary nature. These courses are offered in Special Services, Watauga College and Selected Topics.

1000-1010. Introduction to Communications I and II/(3).F;S.

Improves communication skills, especially in writing, through an approach involving reading, speaking, listening and writing. Enrollment by permission of instructor.

1101, 1103; 1102, 1104. Interdisciplinary Studies in Humanities and Social Science/(10, 6; 10, 6) F,F;S,S. Watauga College only.

A multidisciplinary study in the humanities and social sciences in which basic problems of civilization will be considered: problems of subsistence and survival; problems of living together; problems of ideology and aesthetic satisfaction. The courses count as general education credit in English, social sciences, and the humanities. Students may receive credit for either 1101 or 1103, but not both, for either 1102 or 1104, but not for both.

2201, 2202, 2203, 2204, 2205, 2206. Interdisciplinary Studies in Humanities, and Social Science/(6, 3, 1, 6, 3, 1). F,F,F;S,S,S. Watauga College only.

A multidisciplinary study in the humanities and social sciences in which basic problems of civilization are considered. The courses are the six-hour, three-hour or one-hour equivalents of the 1101 and 1102 blocks. The courses count as general education credit in social science and the humanities.

2500. Independent Study/(1-4).F;S;SS.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).F;S;SS. On Demand.

3900. Internship/(3-12). F;S;SS.

Supervised work in an appropriate field experience. Student must get approval from the advisor of the B.A. in Interdisciplinary Studies Program prior to enrolling. Graded on S/U basis only.

4559. Wilderness Education Practicum/(4). F;S.

Through wilderness challenges supervised by an Outward Bound School or the Wilderness Center

at the University, the student will learn such skills as bicycle touring and rockclimbing or ski mountaineering and primitive caving. The goals of this course will be centered around encouraging self-awareness and personal responsibility, developing a sense of conscience and competence, stimulating awareness of nature and human relationships and integrating all aspects of one's personal life. Graded on S/W basis only.

Special Programs

International Studies

In support of its institutional goals of providing a well-rounded education, and realizing that the students of the University must be prepared for citizenship in an interdependent world, ASU offers various programs of international studies. Such programs include the International Economics and Business option (see description listed in the Departments of Economics and Foreign Languages) and the Latin American Studies minor (see listing under Interdisciplinary Minors). The University also sponsors various study abroad programs (announced by the departments involved in the fall of each year) as well as international events on campus.

The Office of International Studies coordinates international programs and provides services to students and faculty interested in study, research, teaching, or employment abroad. The resource center maintained by the office contains information about educational systems and opportunities in other nations as well as material on scholarships for both students and faculty. The Office of International Studies sponsors and coordinates various exchange programs for ASU students and faculty, a host family network and issues International Student identification cards. The office is also responsible for foreign student advising.

Learning Assistance Program

Nancy Spann, Director

The Learning Assistance Program at Appalachian State University is an academic support program designed to assist students in achieving their educational goals. The program provides tutoring, information, materials, skill-oriented workshops/seminars, and study aids to enable all students to be more successful in their academic work. The Learning Assistance Program is housed in the General College and is located in room 200 of D.D. Dougherty Library.

Tutorial Service

Judy Robinson, Coordinator

The tutoring program assists students who are having difficulty in their courses and/or want to improve their chances of success in their coursework. The program provides

tutorial assistance in general education courses through group and individual tutoring. The tutoring lab is open Monday - Thursday from 8 a.m. - 9 p.m. and Friday from 8 a.m. - 5 p.m. in Room 200 of D.D. Dougherty Library.

Upward Bound

M. Wesley Waugh, Coordinator

Upward Bound is funded by the Department of Education and is designed to assist qualified high school students in reaching their academic and personal potential, as well as to prepare them for post-secondary education. The students come from six local high schools—Avery High School, Watuaga High School, Beaver Creek High School, Ashe Central High School, West Wilkes High School and Northwest Ashe High School and meet specific financial and educational guidelines. The program provides academic assistance, social and cultural experiences and personal counseling, both during the academic year and during an intensive residential summer program.

Special Services

Cindy Wallace, Coordinator

Special Services, funded and supported by the Department of Education and Appalachian State University, is designed to assist first and second year students enrolled at ASU who have potential for success in college but who may experience some academic difficulties. Students selected for the program must be in need of financial assistance and/or be a first generation college student (neither parent has a college degree). The program offers academic advising; personal, career, financial counseling; tutoring; developmental courses and special sections of regular university courses.

Learning Disabilities

Arlene Lundquist, Coordinator

The Learning Disabilities Program explores and implements academic support services for identified learning disabled young people who have met regular admission requirements. Efforts extend to assessing the learning disability and to helping the student meet his individual needs and become successful independent learners. The program provides the following services: academic counseling and assistance, liaison with university faculty, tutoring, and implementation of alternative methods and materials.

Services for Student-Athletes

Brad Berndt, Coordinator

ASU values academic excellence as well as athletic achievement. The student-athlete is, therefore, provided a comprehensive academic support system through academic advising, counseling, tutoring, assistance with registration and orientation, and placement in developmental courses, if necessary. A required study hall is maintained for the student-athletes who have special needs.

University Honors

Thomas McLaughlin, Coordinator

The University Honors Program at Appalachian State University offers promising and highly motivated students a special opportunity to broaden and enrich their academic program by providing Honors seminars in Anthropology, English, Geology, History, Economics, Philosophy and Religion, Psychology, Mathematics, Physics and Astronomy, and General Honors. Honors courses at the lower division level are designed to meet general education requirements.

Honors courses are usually conducted as seminars where students meet in small groups to discuss readings, exchange ideas, debate, and share results of individual study and research. The emphasis in Honors is on independent and creative thinking with a great deal of student participation expected.

Students are encouraged to participate in more than one program at a time. Honors courses are usually offered by invitation but any student interested in enrolling may make application to the Director of Honors in the area of interest.

University Honors offers competitive four-year scholarships. For information and application, write to the Coordinator of University Honors.

Honors students who meet the following criteria are eligible for designation as a "University Honors Program Graduate":

1. Completion of at least 18 semester hours of honors courses.
2. At least 6 semester hours in honors courses must be outside the student's major.

3. Completion, as part of the 18 hour requirement, of a 3 hour senior honors project in the student's home department. The project must be directed and approved by a faculty member from the student's home department, and be read and approved by a faculty member from outside the department who has experience in honors courses.
4. Achievement of at least a 3.4 GPA in honors courses.

Several disciplines offer departmental honors for their majors. Check for requirements and procedures in the catalog section for specific departments. As of the Fall of 1988, all departmental honors programs will require at least nine hours in departmental honors courses, including a three hour senior honors project.

The General Honors Program is described under Interdisciplinary Studies in a separate section. For specific departmental course information, please refer to the course listings elsewhere in the catalog.

Project Ahead

Project Ahead is a cooperative program between ASU and the US Armed Services that offers advising to students who are interested in attending ASU but are in the Armed Services in other places. Students must be admitted to Appalachian but may take courses at accredited post-secondary institutions all around the country. Advising on which courses will transfer to Appalachian to meet requirements is provided by the Assistant Dean of the General College.

The College of Arts and Sciences

J. William Byrd, Dean

Donald W. Sink, Associate Dean

In cooperation with other colleges of the University, the College of Arts and Sciences strives:

To provide a liberal education for all Appalachian students.

To offer instruction appropriate for specialization in the natural sciences, social sciences, humanities, and mathematics.

To prepare students for certain professions.

To prepare students for entrance into certain professional schools.

To prepare students for graduate study and research.

Departments

The College of Arts and Sciences consists of the following departments:

Anthropology	History
Biology	Mathematical Sciences
Chemistry	Philosophy and Religion
English	Physics and Astronomy
Foreign Languages	Political Science/Criminal Justice
Geography and Planning	Psychology
Geology	Sociology

Degrees Offered

The College of Arts and Sciences offers the Bachelor of Arts, the Bachelor of Science, the Bachelor of Science in Criminal Justice and Bachelor of Science in Social Work degrees. In cooperation with the College of Education it offers the Bachelor of Science degree with teacher certification in English; French; history; mathematics; Spanish; biology, chemistry, earth science, or physics (leading to Science Education certification); and Social Science Education with concentrations in anthropology, economics, geography, history, political science, or sociology.

Graduate programs leading to the Master of Arts and Master of Science degrees and to the Specialist in Science degree are described in the introductions to the individual departments in the Graduate Catalog. A student desiring to pursue one of these programs should consult with the departmental chairperson and/or faculty advisor.

To be admitted to the College of Arts and Sciences as a candidate for a baccalaureate degree a student must have:

1. Completed at least 60 semester hours.
2. A grade-point ratio of at least 2.00 (which must be maintained).
3. Completed English 1000, 1100.
4. Been accepted by a department in the college as a major in that department.

A student who is a candidate for a teaching certificate must be admitted to the teacher education program by the Director of the Office of Field Experiences, must have a grade-point average of at least 2.20, and must have passed proficiency tests in reading, speech, and written English.

Bachelor of Arts Degree

To earn the Bachelor of Arts degree in the College of Arts and Sciences, the student must meet the following requirements:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.
3. Completion of six semester hours of a second year of foreign language or higher. The Department of Foreign Languages places students at the level which they are prepared to perform regardless of previously earned units.
4. Completion of a major consisting of 24 to 36 semester hours from one of the fields listed below:

Anthropology	History
Biology	Mathematical Sciences
Chemistry	Philosophy and Religion
Economics	Physics
English	Political Science
French	Psychology
Geography	Sociology
Geology	Spanish

A student must have at least a 2.00 grade-point average on all work in the major at Appalachian. A transfer student must complete at least eight semester hours of work in his or her major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian. *Specific requirements for each departmental major preface the list of courses offered by the department.*

5. Completion of a minor consisting of 12 to 20 semester hours from a department other than the departments of Leadership and Higher Education; Curriculum and Instruction; Human Development and Psychological Counseling; Language, Reading and Exceptionalities. A transfer student must complete at least four semester hours in his or her minor at Appalachian.
6. Electives to complete 122 semester hours.
7. Completion of residence requirements.
8. Compliance with regulations concerning satisfactory citizenship and settlement of all expense accounts.
9. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

Students pursuing the B.A. degree are advised to refer to the section entitled "Credit Limitations" which apply to that particular degree.

A candidate for the Bachelor of Arts degree may qualify for a teaching certificate by admission to professional education courses through the chairperson of the Department of Secondary Education and by completing all academic and professional education requirements for certification.

Bachelor of Science Degree

(without teacher certification)

In order for a student to earn the Bachelor of Science degree in the College of Arts and Sciences, the following requirements must be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of the general education requirements.
3. Completion of a major as described by the various departments offering Bachelor of Science programs without teacher certification:

Anthropology	History
Biology	Mathematical Sciences
Chemistry	Physics
Geography and Planning	Political Science
Geology	Psychology
	Sociology

Specific requirements for each department major preface the list of courses offered by the department.

Students must have at least a 2.00 grade-point average on all work in the major. Transfer students must complete at least eight semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

4. Electives to complete 122 semester hours.
5. Completion of residence requirements.
6. Compliance with regulations concerning satisfactory citizenship and settlement of all expense accounts.
7. Recommendation of the faculty.

Meeting graduation requirements is the responsibility of the student.

Bachelor of Science Degree

(with teacher certification)

For the section on requirements for the Bachelor of Science degree with teacher certification, refer to index.

Bachelor of Science in Criminal Justice Degree

To earn the Bachelor of Science in Criminal Justice (BSCJ) degree, the student must meet the following requirements:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.
3. Completion of a major consisting of 54 semester hours as specified and STT 3810. See Department of Political Science/Criminal Justice.

Students must have at least a 2.00 grade-point average on all work in the major at Appalachian. Transfer students must complete at least eight semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

4. Electives to complete 122 semester hours.
5. Completion of residence requirements.
6. Compliance with regulations concerning settlement of all expense accounts.

7. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

Advisement

Advisement for students in the College of Arts and Sciences is available through the office of the Dean of the College of Arts and Sciences and in each of the departments composing the college. Advisement is not compulsory, but each student is urged to use the available services and especially to visit the dean's office one semester prior to graduation.

Internship Programs

The Student Internship Programs offered in most departments in the College of Arts and Sciences provide students the opportunity to learn by working outside the regular classroom setting and to formulate career plans based on the experience gained. Student interns earn academic credit toward their degrees and, in some cases, financial support from the participating agencies or firms. Beyond these considerations, internships offer the fringe benefits of realistic on-the-job experience and personal contacts in agencies and firms so that they often serve as the bridge to careers after graduation.

Internship instruction will be provided by agency or industry personnel in close cooperation with faculty in the student's major department. The student's interests and requests will be considered in internship assignments and placements, but the final decisions will be made by the departmental faculty in cooperation with the participating agency or firm.

In many majors and career-oriented concentrations, an internship is required as a part of the course of study; in others, the internship is available as an elective. By using the departmental course numbers 4900, 5900, and 6900, official internship programs are listed in Anthropology, Community Planning and Geography, English, History, Physics & Astronomy, Political Science and Criminal Justice, Psychology, Sociology, and Appalachian Studies. Computer Science (in Mathematics) uses CS 3470 (Current Computer Use) to provide work experience which contributes to the student's academic background in the computer field. Other departments have used more informal arrangements (independent study courses) to provide academic credit for internship experience.

Students seeking further information should contact the office of the College of Arts and Sciences (201 I.G. Greer), their major advisor, their departmental chairperson, or the Student Internship Office (Whitener Hall).

Preprofessional Programs

Appalachian State University provides students with preparation for professional training in other institutions. Some preprofessional programs (law, medicine, dentistry and

theology) are four year programs and lead to a B.A. or B.S. degree from ASU; others (engineering, forestry, nursing and pharmacy) are two years and prepare for pursuit of a degree to be granted by the professional school.

Whatever program students select, they are urged to consult professional school catalogs and to work closely with the appropriate advisors at Appalachian.

Law

Law schools require a bachelor's degree (B.A. or B.S.) but, in most cases, no specific selection of courses. Advisors can help students plan a curriculum most likely to prepare them for study of law. Usually students do not specialize during a regular law school program, but are expected to establish a solid foundation of legal knowledge upon which they may build a special practice. Academic areas with materials especially relevant to the study of law are business, communication arts, criminal justice, economics, history, philosophy, political science, psychology and sociology.

However, students may wish to pursue a General Studies degree. Besides aiding in the selection of a curriculum, pre-law students are encouraged to participate in the forensics program as part of the extracurricular activity. Advisors: Dr. Richter Moore, Department of Political Science/Criminal Justice; Dr. George Antone, Department of History; Dr. Terry Cole, Department of Communication Arts.

Theology

Most seminaries now require a bachelor's degree (B.A. or B.S.), but in most cases no specific selection of courses. In working with their advisor at ASU, students can develop a curriculum suited to the seminary and specialty of their choice. Pre-theological students should be aware of the increasing variety of church-related professions available to them.

In general, the pre-theological student is advised not to overload in religion courses but rather seek to understand the phenomenon of man from as many perspectives as possible. This may mean developing a General Studies degree curriculum although a number of traditional majors offer a solid background for seminary. Advisors: Dr. James W. Stines, Department of Philosophy and Religion; Dr. Larry Bond, Department of History.

Medicine and Dentistry

All medical and dental schools require at least three years of satisfactory undergraduate work and most give preference to candidates holding a bachelor's degree. The catalog from the school selected should be consulted and an individual program designed with the help of an advisor to prepare the student for both specific admission requirements and the Medical School Admission Test. In general, solid work in the humanities plus a core of courses such as the following are recommended:

MAT 1110-1120; 2130, 3810

CHE 1101-1102, 2201-2202, 2210, 3301

BIO 2202, 3300
PHY 1103-1104 or PHY 1150-1151
PSY 2201

Students should begin taking chemistry during the freshman year. Medical and dental schools will look at the overall quality of performance, not just achievement in science. Interested students should contact Dr. J. Kenneth Shull, Department of Biology.

Engineering

The Department of Physics and Astronomy offers a pre-engineering program and advises students who are interested in engineering. North Carolina State University in Raleigh has provided the following guidelines for students planning to transfer there:

N.C. State will accept transfer students from ASU who have completed at least 28 semester hours with at least a 2.80 average. They do not consider SAT scores for transfers—only the quality of work done at ASU.

In addition to the required science and mathematics courses the student should take an economics course, a history course, and a literature course.

Essential Courses:

MAT 1110, 1120, 2130 and 3130
PHY 1150 and 1151
CHE 1101 and 1102
IET 1001
ENG 1000 and 1100

Highly Recommended Courses:

PHY 2010 and 2020
CS 1400 or 1440
ECO 2030 and 2040
P&R 3600

NOTE: If planning to transfer to a school other than N.C. State, the student should request that the school send information on specific requirements. Advisor: Dr. Gordon Lindsay, Department of Physics and Astronomy.

The pre-engineering program has been approved by the Subcommittee on Engineering Transfer for transfer to the engineering programs at North Carolina A & T State University, North Carolina State University, and the University of North Carolina at Charlotte.

Cooperative Programs at Appalachian Medical Technology

A major in biology leading to the Bachelor of Science degree in Medical Technology consists of a minimum of 90 semester hours of work at Appalachian and 32 semester

hours of work at an affiliated medical technology school. The 90 semester hours at ASU include 40-44 semester hours in general education; 17 semester hours in biology, including BIO 1101-1102, 3300, 3308, 4554; 16 semester hours in chemistry, including CHE 1101-1102, 2201-2202 and 17 semester hours in electives. Courses taken at an affiliated medical technology school include Clinical Chemistry (nine semester hours), Clinical Microbiology (10 semester hours), Clinical Microscopy (nine semester hours), and Blood Banking (four semester hours). ASU has affiliations with schools of medical technology at Baptist and Forsythe Hospitals in Winston-Salem, N.C., and with Memorial, Presbyterian, and Mercy hospitals in Charlotte, N.C. Only a limited number of qualified applicants are accepted into the clinical year of this program and the competition is keen. Applicants are selected on basis of grade point average, course selection and work experience. Advisor: Dr. Jeffrey A. Butts, Department of Biology.

Dual-Degree Engineering Program with Auburn University

A dual-degree program offered in cooperation with Auburn University permits students to attend ASU for three years and Auburn University for two years. This three-two program results in two college degrees.

Study during the first three years would include course work in mathematics and the sciences and also courses chosen to meet ASU's general education requirements. During the last two years, the student is involved in course work in one of the engineering disciplines at Auburn University.

Upon completion of this three-two program, the graduate is awarded a baccalaureate degree from ASU and an engineering bachelor's degree from Auburn. The Dual-Degree Program also contains a provision enabling highly qualified students to obtain a Master's Degree in Engineering after obtaining the liberal arts undergraduate degree.

Dual-Degree candidates from ASU are eligible to seek bachelors degrees from Auburn University in Aerospace Engineering, Aviation Management, Chemical Engineering, Civil Engineering, Electrical Engineering, Industrial Engineering, Materials Engineering, Mechanical Engineering, Textile Chemistry, Textile Engineering and Textile Management.

For additional information, contact Dr. Donald W. Sink, Associate Dean, College of Arts and Sciences.

Forest Resources

In cooperation with North Carolina State University, ASU offers the first two years of programs leading to bachelor degrees in forestry and other related areas.

In general, students should take:

ENG 1000-1100

MAT 1020-1110-1120

CHE 1101-1102

BIO 1110 and/or 2204-2205

PHY 1103-1104
CMA 2101
ECO 1010 or 2040
PE (four hours)
Humanities and Social Sciences (12 hours)
Electives (six hours)

Students in Conservation or Recreation Resources Administration are required to complete only the first course in analytic geometry and calculus (1110).

Students planning to enroll in Pulp and Paper Science and Technology should complete two years of chemistry. Advisor: Dr. John Bond, Department of Biology.

Nursing

Students who wish to pursue a B.S. in Nursing may complete up to 64 hours of requirements for most nursing programs at Appalachian and then transfer to an institution that offers the B.S.N. The pre-nursing advisor maintains current information on several programs in the state, and will assist with obtaining information on other programs and with helping students transfer. In order to make the transition as easy as possible, students are encouraged to discuss the possible programs as soon as they begin considering nursing as a major. Advisor: David Smith, General College, 262-2167.

Pharmacy

The School of Pharmacy at UNC-Chapel Hill will accept only those students who have completed two years of college, including the following specific courses:

ENG 1000-1100
CHE 1101, 1102, 2201, and 2202 (2210 highly recommended)
MAT, (8 hours) including MAT 1110
BIO 1110, 2202, 3301
ECO 1010
PHY 1103, 1104
General Education Perspective Courses (15 hours) including HIS 1101
Two hours of physical education
Foreign Language (9-12 hours)

A minimum of 62 hours exclusive of physical education activity courses is required for admission to the program. Students must apply by December 1 of each year. Applicants will be evaluated on the basis of prepharmacy course-work (quality of academic performance), College Board Exam, PCAT Scores, Science Index, personal qualifications, and an interview.

Early contact with the advisor is strongly recommended. Advisor: Dr. Lawrence Brown, Department of Chemistry.

Interdisciplinary Minors

Latin American Studies

A student may earn an undergraduate minor in Latin American studies by successful completion of an interdisciplinary program which must include: (1) two years of college Spanish or Portuguese or the equivalent; (2) at least 16 semester hours, including HIS 2301, 2302, 4320; and SNH 3050, 3030; (3) at least two semester hours in an interdisciplinary seminar or appropriate research project. Courses which a student elects to count toward this minor cannot also be included in a major. Credit toward meeting the above requirements may be earned by attending the Mexican Study Program which is conducted by the history department in cooperation with the Instituto Cultural Tenochtitlan in Mexico City. For information concerning this program, contact the Department of History.

Community and Regional Planning

A student may earn an undergraduate minor in community and regional planning by successful completion of an interdisciplinary program of 20 semester hours, including PLN 2410, 3431 and 3730, and nine hours chosen from among the non-planning courses listed as required or electives within the major of the planning program or other appropriate courses selected with the approval of the advisor of the planning program.

Appalachian Studies

The Appalachian Studies minor is offered for the student who wishes to explore Appalachian regional concerns, and to understand Appalachian social, cultural, and environmental issues in the appropriate interdisciplinary context.

Curriculum offerings, projects, and research relating to the Appalachian region are coordinated by the director of the Center for Appalachian Studies. The Center facilitates individual research projects, and will direct the student toward involvement with research or project activities.

A student may earn an undergraduate minor in Appalachian Studies by successful completion of an Interdisciplinary program of 18 semester hours. Each student must take the 12 hour core listed below and six additional hours:

1. Core

ANT 4120. Appalachian Ethnography	3 s.h.
HIS 3726. History of the Appalachian Region	3 s.h.
P&R 4549. Seminar: Southern Appalachian Religion	3 s.h.
PLN 4440. Community and Regional Planning in Appalachia	3 s.h.

2. Electives:

BIO 5512. Local Flora	3 s.h.
PSY 3530. Selected Topics: Southern Appalachian Personality	3 s.h.
PS 3530. Selected Topics: Appalachian Politics	3 s.h.
ENG 3530. Selected Topics: Southern Appalachian Literature	3 s.h.
FDN 4810	3 s.h.
AS 3500, 3530	1-3 s.h.

3. Other electives may be chosen upon approval of the Director.

Black Studies

(For section describing this program, refer to index.)

Gerontology

A. M. Denton, Jr., Coordinator

A student may earn a minor in Gerontology by successful completion of an interdisciplinary program of 15-18 hours.

1. Required courses

a. SOC 3100 - Gerontology	3 s.h.
b. BIO 3530 - Selected Topics: The Physiology of Aging	3 s.h.
c. PSY 4562 - Psychology of Aging	3 s.h.

2. Electives

a. CR 4680 - Counseling the Aging	3 s.h.
b. HEC 4101 - Families in Later Life	3 s.h.
c. SPA 4600 - Selected Topics: Communication Problems of the Aged	3 s.h.
d. HED 4700 - Death and Dying	3 s.h.

3. Other electives will be added. Students choosing this minor will need to check with the coordinator in order to receive more information.

Department of Anthropology (ANT)

Patricia D. Beaver, Chairperson

The Department of Anthropology is committed to a comparative and holistic approach to the study of the human experience. The anthropological perspective provides a

broad understanding of the origins as well as the meaning of physical and cultural diversity in the world—past, present, and future. As such, the program in anthropology offers the opportunity for understanding world affairs and problems within the total context of the human experience and for constructing solutions to world problems which are firmly grounded in that context. Specifically, the department offers: (1) students of all disciplines the opportunity to deepen and broaden their knowledge of humankind and of themselves; (2) a strong preparation for graduate study in anthropology; and (3) an academic and practical background for those who wish to apply the anthropological perspective in a wide range of professional careers, such as social services, education, and archeology.

A major in anthropology leading to the Bachelor of Arts degree consists of 36 semester hours including ANT 1215, 1230, 3410, 4425, 4550, a choice of ANT 1210, 2235 or 3335, and 18 semester hours of electives. In addition, SOC 1115 is required, and STT 3810 is strongly recommended. MAT 1020 should be the course taken to fulfill the mathematics requirement in general education.

A major in anthropology leading to the Bachelor of Arts degree with a concentration in applied anthropology consists of 36 semester hours including ANT 1215, 1230, 3410, 3550, 4425, 4550, 4900, a choice of ANT 1220, 2235, or 3335, other optional courses relevant to the internship experience selected in consultation with a faculty mentor and approved by the department chairperson, and the remaining semester hours in electives. In addition, SOC 1115 is required, and STT 3810 is strongly recommended. MAT 1020 should be the course taken to fulfill the mathematics requirement in general education.

A major in anthropology leading to the Bachelor of Science (non-teaching) degree with an anthropology career orientation consists of a minimum of 60 semester hours. This includes:

1. Core courses in anthropology consisting of ANT 1215, 1230, a choice of ANT 1220, 2235, or 3335, 3410, 4425, 4550, and 12 semester hours of electives in anthropology.
2. A minimum of 30 semester hours in a career-oriented group of courses selected from several departments and disciplines. Core courses will be specified for each group with electives chosen with the consent of the advisor. Some suggested groups are public/historical archeology and applied cultural anthropology. Statistics 3810 is required.

Students must have written permission from the department chairperson prior to declaring this major.

For the curriculum for a major in social science with concentration in anthropology leading to the Bachelor of Science degree and teacher certification, refer to index. MAT 1020 should be the course to fulfill the mathematics requirement in general education. For the requirements in teacher education, see the Department of Curriculum and Instruction.

A minor in anthropology consists of 18 semester hours in anthropology selected in consultation with the department advisor.

Courses of Instruction in Anthropology

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1210. Introduction to Anthropology/(3).F;S.

An introduction to the discipline of anthropology and the anthropological perspective on the human experience. Provides a broad understanding of the origins, development, and meaning of human physical and cultural diversity and an understanding of oneself within this framework.

1215. Cultural Anthropology/(3).F;S.

A cross-cultural study of the variety of human cultures, past and present, including the interrelationships between social, economic, political, and religious systems. The course is designed to develop an understanding of cultural differences so that the student may develop a deeper understanding of his or her own life, of the contemporary world, and of the applicability of cultural understanding to the solution of human and social problems. Required for majors.

1220. Introduction to Archeology /(3).F;S.

An overview of the work of archeologists. Archeology is presented as both a study of the relationship between objects and modern human behavior.

1230. Physical Anthropology/(3).F.

The study of the biological aspects of human beings including human evolution, primate behavior and anatomy as they relate to humans, physical variation in modern humans, and physical adaptations to environment in modern humans. Required for majors.

1510. Freshman Honors Colloquium/(3).F;S.

Study of selected topics in general anthropology. Enrollment by invitation of the department or by application.

2200. Archeological Laboratory Methods/(3).S.

An introduction to laboratory methods for archeological ceramics, lithics, bones and soil samples. Cataloguing, site forms and several advanced analytical techniques are introduced as well. Lecture two hours, laboratory two hours.

2235. North American Archeology/(3).F.

A general survey of North American lifeways in

North America before white contact as known through archeological information. Basic archeological concepts and a brief discussion of the history of North American archeology will be presented. Topical emphases include the prehistory of Alaska, the Northwest Coast, the Southwest, Plains, Great Basin, Mid-west, and the Eastern United States. This course logically precedes ANT 2400, North American Indians. ANT 2210, 2235 or 3335 is required for majors.

2400. North American Indians/(3).F;S.

An ethnographic survey of the American Indian cultures from northern Mexico to the Arctic. Also the modern Indian condition is considered.

2500. Independent Study/(1-4).F;S.

2600. Southwest Field Experience/(3).S.

Southwest Field Experience includes an eleven day field trip to study the anthropology of the southwestern United States. This includes visiting the Hopi, Zuni and Navaho reservations where we observe the living Indian people. Also we visit several important archeological sites which represent the ancestors of the above tribes. A minimum of six weeks of three hours preparatory classes are required prior to the trip.

3100. China in Context/(3).S.

An overview of current social and cultural themes in contemporary China, set in context of the rich Confucian legacy and radical changes initiated by the revolution.

3305. Forensic Anthropology/(3).S.

Forensic Anthropology is the application of anthropological techniques to solving criminal cases. Instruction will be given in the application of archeological techniques to crime scene investigation and removal of physical evidence from that scene. The major thrust of the course, however, is the study of human physical remains in order to provide a positive identification of the victim. This includes determination of the sex, age, race, stature, and other identifying characteristics of the subject. The class will consist of thirty hours of lecture and thirty hours of laboratory instruction for the semester.

3335. World Archeology/(3).S.

A comparative and evolutionary study of the development of world cultures from the earliest forms of fossil humans through early state level organization. The course will emphasize Old World cultures in Europe, Africa, Russia, India, and China. New World cultural evolution will be more generalized, beginning with the population of the New World and ending with the development of states. Alternate years. ANT 2210, 3335 or 2235 is required for majors.

3410. Methods in Anthropology/(3).S.

Provides instruction in basic methods and techniques necessary for archeological and ethnographic research. Topics include sampling, surveys and questionnaires, interviewing techniques, participant-observation, elementary statistics, computer analysis (with emphasis on SPSS), and proposal writing. Required for majors.

3420. Women in Cross-Cultural Perspective/(3).F.

A consideration of the biological and sociocultural bases for sex roles and the effect of modernization and culture change on women's status. Specific topics include: politics; the supernatural, ritual and belief systems; and revolutionary change in communal/socialist societies. Offered odd-numbered years.

3430. Magic, Witchcraft and Religion/(3).F;S.

A cross-cultural study of the nature and functions of belief systems. Emphasis is placed on understanding the belief systems of non-Western cultures in order to provide a means through which our own beliefs can be better understood. A variety of anthropological, psychological, and parapsychological approaches to the study of belief systems are utilized.

3500. Independent Study/(1-4). F;S.

3510. Juniors Honors Colloquium/(3).On Demand.

Seminar on a selected topic in anthropology. Enrollment is by invitation of the department, or by application.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the anthropology curriculum. May be repeated for credit when content does not duplicate.

3550. Applied Anthropology/(3).S.

This course will provide a survey of the subfields of applied anthropology, particularly urban and medical anthropology and community development, a review of the methods used in policy research, and discussion of the guides for ethical practice of applied anthropology. Students will be provided an introduction to local agencies and applied anthropologists during the course.

4110. Meso American Archeology/(3). On Demand.

The prehistory of Mexico, Guatemala and Honduras is covered from the earliest Paleo Indian up to the conquest of Mexico by the Spaniards in the 16th Century. Emphasis is placed on the continuity of cultures from the Teotihuacanos to the Aztecs in central Mexico and from the Olmec to the Mayans in the southern and eastern portions of the area. Alternate years.

4120. Appalachian Culture/(3).F.

A cultural survey of rural and urban Appalachia. A brief history of the region is followed by a discussion of the contemporary social, economic, political, and cultural characteristics of the people. The impact of processes of change, including migration, urbanization, industrialization, and resource exploitation, are explored.

4130. Meso American Ethnology/(3).S.

An integrated study of society and culture in Meso America (Mexico, Guatemala, Honduras), including prehistorical and historical background and an analysis of contemporary values, social structure, economic forms, politics, and religion. Contemporary issues which face this region and bear on its relationship to the world are discussed. Alternate years.

4402. Archeological Method and Theory/(3).S.

An in-depth presentation of theoretical approaches and concepts in North American archeology. The history of N.A. archeology will be discussed briefly. Course emphasis includes methods of data analysis and interpretation, survey and excavation methodology related to hypothesis testing, and overview of sampling and

quantitative methodology, and cultural resource management. Alternate years. Prerequisites: ANT 2235 or 3335. Recommended co-requisite: ANT 4410.

4425. History of Anthropological Ideas/(3).F.

A critical examination of the most influential ideas and theories in anthropology from the 19th Century to contemporary theoretical schools, viewed in historical context. Changing conceptions of research strategies, research questions, and modes of explanation, as they relate to developing ideas about the nature of anthropology and human culture are explored. Required for majors.

4445. Field School in Archeological Techniques/(3-6).SS.

An introduction to the techniques of recovery of archeological data, including training in such skills as surveying, controlled surface collection, excavation and processing and preservation of artifacts. This course is taught on an archeological site.

Senior/Graduate Courses

4550. Senior Seminar in Anthropology/(3).S.

An opportunity for upper level students to reflect upon the anthropological perspective and to contemplate and articulate their own image of anthropology. Diverse issues ranging from the consideration of ethics to the examination of career opportunities to reflections upon the overall meaning of anthropology will be discussed. Designed as a final on-campus opportunity for students to systematically reflect upon their vision of the anthropological enterprise and to integrate their experience in anthropology in relationship to their future goals. Ideally should be taken during the final semester of on-campus study. Required for majors. Prerequisite: senior standing or approval of instructor.

4565. Peasantry, World Systems, and Social Change/(3).S.

Descriptive and theoretical analysis of Third and Fourth World peasantry in the context of world economic and political systems, the emerging nonaligned nation states, and industrialization and urbanization. Alternate years.

4600. Medical Anthropology/(3).F.

A cross-cultural investigation of concepts of physical and mental health and illness and the treatment of disease. Topics include: shamanism and faith healing, folk psychiatry, witchcraft as cause/cure, folk diseases and folk medicine, and alternatives to Western Scientific medicine.

**4650. Anthropology of Education/(3).
On Demand.**

An examination of formal and informal education within the context of human culture. Emphasis is placed on achieving a cross-cultural understanding of education and educational issues through a study of education in other cultures, minority education, formal and informal educational systems, and the cultural context of the classroom and school. Alternate years.

4700. Historical Archeology/(3).On Demand.

The study of America since the late 16th century as known through its material culture. This course focuses on the different types of sites (domestic, military, industrial) and how they have been studied by archeologists in order to create a more complete picture of past American lifeways. Also emphasized is the identification, analysis, and preservation of artifacts plus issues such as Native American contact, ethnicity, adaptive strategies and socio-economic status recognition. Alternate years.

4750. Archeological Site Reporting/(3).S.

Students will utilize their experience and knowledge gained in other archeology courses to analyze and interpret an excavated site. Each student will author a section of the site report which will normally be published. Prerequisites: ANT 2200 and 4445.

4900. Field Experience: Internship/(3-6). On Demand.

Graded on S/U basis only.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Biology (BIO)

Jeffrey A. Butts, Chairperson

The objectives of the Department of Biology are to provide a background in the life sciences as a part of a student's general education, to prepare students for careers in biology, to prepare students to meet admission requirements of professional schools, to encourage students to engage in research and to prepare students to teach biology.

A major in biology leading to the Bachelor of Arts degree consists of 24 semester hours in biology in courses numbered above the 1110 level. This must include 2201-2202, 2204-2205, and 12 semester hours of electives in biology. In addition, the biology major must take CHE 1101-1102, CHE 2201-2202, PHY 1103-1104, and MAT 1025-1110 or MAT 1110-1120.

A minor in biology consists of 12 semester hours above the 1110 level courses.

A major in biology leading to the Bachelor of Science degree in Medical Technology consists of 90 semester hours of work at Appalachian and 32 semester hours of work at an affiliated medical technology school. The 90 semester hours at Appalachian include 40-44 semester hours in general education; 16 semester hours in biology, including BIO 1101-1102, 3300, 3308, 4554; 16 semester hours in chemistry, including CHE 1101-1102, 2201-2202; and 15-19 semester hours in electives. Courses taken at an affiliated medical technology school include Clinical Chemistry (nine semester hours), Clinical Microbiology (ten semester hours), Clinical Microscopy (nine semester hours), and Blood Banking (four semester hours). For further information, consult with the chairperson of the department.

A major in biology leading to the Bachelor of Science degree in the Naturalist program consists of a core of 22 semester hours including MAT 1110 or STT 3810; CHE 1101-1102; BIO 1110; 2201-2202. In addition to the core, the Naturalist program requires the completion of the following 42 semester hours: BIO 2204, 2205, 3302, 3304. Any five of the following courses: BIO 3303, 3310, 4551, 4552, 4556, 4559, 4560, 4561; GHY 1010, 3100; GLY 1101-1102; HED 3100. The Naturalist program also requires proficiencies in swimming and speech.

A major in biology leading to the Bachelor of Science degree in the Pre-Professional and Paramedical program consists of a core of 22 semester hours including MAT 1025-1110; CHE 1101-1102; BIO 1110, 2201-2202. In addition to the core the Pre-Professional and Paramedical program requires the completion of the following 43 semester hours; MAT 1120; PHY 1103-1104; CHE 2201-2202, 2210; BIO 2204, 3300, 3301, 3308, 3309, and 4554.

A major in biology leading to the Bachelor of Science degree and teacher certification in Science Education consists of 26 semester hours above the 1110 level. This must include BIO 2201-2202, 2204-2205, 3300, 3308, 3520, 4554, 4555, or 3301. In addition, the biology major must take CHE 1101-1102 and one semester of organic

chemistry, PHY 1103-1104, and MAT 1025-1110 or MAT 1110-1120 or MAT 1110-(STT)3810. For information on the full curriculum in Science Education, see Science Education in index. For the requirements in teacher education, see the Department of Curriculum and Instruction.

The Department of Biology offers a Master of Arts degree with concentrations in Secondary School Teaching, Community, Junior and Technical Teaching, a Master of Science degree, and the Specialist in Science degree. Persons interested in any of these degree programs are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Biology and General Science

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

BIOLOGY

1101-1102. Introduction to Life Science/(3-3).F;S;SS.

A survey of living organisms and their relationship to each other and to their environment. Study of topics from morphology, physiology, embryology, and genetics with particular reference to man and healthful living. Lecture two hours, laboratory two hours.

1107. Principles of Biology/(3).F;S;SS.

An activity-centered approach to life sciences emphasizing evolution, genetics, reproduction, development and ecology. Labs are process oriented emphasizing gathering and processing data and design of investigations. **Restricted to Elementary Education majors.** Lecture two hours, laboratory two hours.

1110. Concepts of Biology/(4).F;S.

Important concepts of modern biological science. Designed for Science majors. First course for biology majors. Prerequisite: 1 year of high school biology. Lecture three hours, laboratory three hours.

Unless noted by an asterisk, BIO 1101-1102 or BIO 1110 are prerequisite for all courses numbered 2200 and above.

2201. Invertebrate Zoology/(3).F.

The taxonomy, morphology, and physiology of the invertebrates. Lecture two hours, laboratory two hours.

2202. The Vertebrates/(3).S.

The origin, evolution, anatomy, physiology, taxonomy, and natural history of the vertebrates. Lecture two hours, laboratory two hours.

2204. Botany I/(3).F.

Historical background of botany, principles of cytology, physiology, anatomy, and morphology of the seed plants. Lecture two hours, laboratory two hours.

2205. Botany II/(3).S.

A phylogenetic approach to the reproduction, anatomy, and morphology of representative plants from each division. Prerequisite: BIO 2204. Lecture two hours, laboratory two hours.

2500. Independent Study/(1-4).F;S;SS.

3300. Molecular Biology/(3).F;S;SS.

A study of the fundamental cellular processes to include; review of the structure of carbohydrates, lipids, proteins and nucleic acids, DNA replication, protein synthesis, enzyme kinetics, respiration and photosynthesis. Prerequisites: 1 semester of organic chemistry or permission of the instructor. Lecture two hours, laboratory two hours.

3301. Introductory Animal Physiology/(3).F;S.

Fundamental principles of animal physiology. Prerequisites: CHE 1101-1102. Lecture two hours, laboratory two hours.

3302. Ecology/(3).F.

Principles of ecology, energy flow, adaptations, association, succession, abiotic factors, economic aspects, and distribution of organisms. Prerequisites: Field projects are required. Lecture two hours, laboratory two hours.

3303. Biology of Higher Cryptogams/(3).F.

A morphological and taxonomic investigation of the bryophytes and pteridophytes. Techniques of identification, collection, and preservation will be stressed in the laboratory. Prerequisite: BIO 2205. Lecture two hours, laboratory two hours.

3304. Systematic Botany/(3).F;S.

The general principles of the taxonomy of the vascular plants utilizing elements of the local flora as laboratory material in the consideration of identification, nomenclature, classification, and evolutionary mechanism. Prerequisite: BIO 2205. Lecture two hours, laboratory two hours.

3308. Bacteriology/(4).F;S;SS.

Introduction to microbiology with emphasis on bacteriology, virology and immunology. Surveys the field of microbiology and related techniques with special attention given to host-pathogen relationships and diagnostics. Laboratory exercises are correlated with lecture topics. Prerequisites: Biology 1101-1102 and Chemistry 1101-1102. Lecture three hours, laboratory two hours.

3309. Comparative Embryology/(3).S.

A study of gametogenesis, fertilization, and comparative morphology of developing embryos of selected invertebrates and chordates. Lectures emphasize evolutionary relationships among the chordates as revealed by embryology and theories concerned with the control of differentiation. Laboratories stress the structural changes that occur during the development of representatives of the major chordate taxa. Lecture two hours, laboratory two hours.

3310. Marine Biology/(3).S;SS.

Introduction to the more common marine organisms, including morphology, physiology, taxonomy, ecology, and economic aspects. Lecture two hours, laboratory two hours. Prerequisite: Biology 2201.

3318. Outdoor Recreation: An Ecological and Behavioral Approach/(2).S.

This course is designed to teach the recreation manager better to understand the complex interactions between the recreation resource and the human user. Recreation is described and studied as need-fulfilling behavior which can be

enhanced by an understanding of the biological entities (flora and fauna) and their ecological relationship. Same as PSY 3318.*

3350. Biological Science Investigations/(3).S.

Designed for elementary and middle grades education majors who choose their academic concentration in science. Topics in invertebrate zoology, animal behavior and microbiology are covered in lecture. Ecological field investigations and methods are covered in lab. Prerequisite: Biology 1107 and Physical Science 1001-1002. Lecture two hours, laboratory two hours.*

3500. Independent Study/(1-4).F;S;SS.**3520. Instructional Assistance/(1).F;S;SS.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours. Required of the biology students seeking the B.S. degree and teacher certification in Science Education.

3530-3549. Selected Topics/(1-3). On Demand.*Senior/Graduate Courses***4550. Nature Study/(3).SS.**

Study of common plants and animals with emphasis on behavior, ecology, collecting techniques and identification. Not open to biology majors for credit.*

4551. Ornithology/(3).S;SS.

The morphology, physiology, behavior, ecology and identification of birds. Early morning field trips are required. Extended field trips to a variety of habitats will be arranged. Lecture two hours, laboratory two hours.

4552. Entomology/(3).F;S.

A comparative survey of the insecta and related arthropods with an emphasis on morphology and systematics. Methods of collecting and preserving insects are covered. Prerequisites: permission of the instructor. Lecture two hours, laboratory two hours.

4553. Histology/(3).F;S.

Microscopic anatomy of the vertebrate body, including a study of the principal tissues and organs. Prerequisites: Senior standing and 16 semester hours of undergraduate biology. Lecture two hours, laboratory two hours.

4554. Genetics/(3).F;S.

A study of principles of variation and heredity governing plants and animals with special reference to man. Prerequisites: 12 hours in biology or permission of the instructor.

4555. Plant Physiology/(3).F;S;SS.

A study of the basic principles of plant physiology and fundamental processes such as cell properties, water relations, growth, photosynthesis, respiration, and mineral nutrition. Prerequisites: BIO 2204-2205 and CHE 1101-1102. Lecture two hour, laboratory two hours.

4556. Mycology/(3).F;SS.

An investigation of the fungi with particular reference to the techniques of working with these organisms. Lecture two hours, laboratory two hours.

4557. Ichthyology/(3).SS.

Ecology, distribution, taxonomy and economic importance of fishes. Freshwater fishes will be emphasized. Prerequisites: BIO 2202 or equivalent. Lecture two hours, lab two hours.

4559. Mammalogy/(3).S;SS.

The natural history, distribution, adaptations, taxonomy and economic importance of mammals. Field trips and visits to zoos will be arranged. Prerequisite: BIO 2202 or equivalent. Lecture two hours, laboratory two hours.

4560. Herpetology/(3).F;SS.

The morphology, taxonomy, physiology, and distribution of amphibians and reptiles. Methods of collecting and preserving specimens as well as behavioral aspects of species in their natural habitats will be covered. Field trips will be required. Lecture two hours, laboratory two hours.

4561. Phycology/(3).F.

The morphological and taxonomic investigation of the major phyla of the algae. Methods of collection, isolation and culturing are covered as well as some aspects of algal physiology and ecology. Lecture two hours, laboratory two hours.

4562. Insects of Field and Stream/(3).F.

A survey course for elementary education majors involving a study of the insects of this region. Emphasis will be placed on field work, collecting, identification and general biology of the major insect orders. Lecture two hours, laboratory two hours.*

4564. Electron Microscopy/(3).F.

A study of principles and techniques of biological microscopy. Lectures include discussions on preparative techniques for light and electron microscopy, theoretical considerations of light and electron optics, and the structure and function of cellular organelles. Laboratories examine practical techniques of tissue preparation for microscopy, the effective use of light and electron microscopes, and the interpretation of data obtained in student micrographs. Lecture two hours, laboratory two hours.

4565. Dendrology/(3).F.

An investigation of the taxonomy, ecology and silvics of the tree flora of North America. Emphasis will be on field identification of local trees. Lecture two hours, laboratory two hours.

4570. Parasitology/(3).S;SS.

A survey of protozoan, helminthic and arthropod parasites with emphasis on causation and prevention of disease. Lecture two hours, laboratory two hours.

4580. Field Biology of Continental U.S.A./ (5).SS.

Ecological investigations of major habitats in the U.S. Prerequisites: 16 hours in biology and consent of the instructor.

4590. Biometrics/(2).S.

A descriptive treatment of statistical techniques used in collecting and analyzing data from biological systems. Areas considered are: statistical descriptions of biological systems; design of investigations including hypothesis testing and analysis of variance; analysis of statistical techniques currently used in biological journals; techniques of computer usage, especially "canned" programs like BMDP. Prerequisite: Statistics 3810 or permission of the instructor.

4591. Applications of Biometrics to Student Research/(1).S.

A laboratory setting for student designing investigations or analyzing data from their research or thesis. Applications of appropriate statistical methods and computer analyses are stressed. Prerequisite or co-requisite: BIO 4590. Laboratory two hours.

4601. Animal Behavior-Ethology/(3).F.

Basic principles of animal behavior are approached from an evolutionary perspective. Topics such

as instinct, learning, biological clocks, sociobiology, communication and physiological mechanisms of behavior are stressed. Laboratory emphasizes techniques of observing, recording, and analyzing behavior using a research project format. Lecture two hours, laboratory two hours. Prerequisites: BIO 1101-1102.

4900. Internships in Biology/(1-6).F;S;SS.

Practical biological experiences in federal, state, and local agencies. Graded on an S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

GENERAL SCIENCE

4401. Methods of Elementary School Science/(3).F;S.

A survey of scientific principles, concepts and national curricula taught in elementary schools. Emphasis is placed upon the development of materials, demonstrations and experiments ap-

propriate for integration into the total curriculum. Directed scheduled, field experiences will be assigned in the local elementary schools. Satisfactory completion of the practicum assigned is required for credit in the course.

4402. Science Teaching in the Middle School/(3).F;SS.

A study of the implementation techniques for the prospective middle school teacher based upon science principles mastered in the science content courses. Investigative techniques and environmental concern will be emphasized.

Senior/Graduate Courses

4550. Science in the Elementary School/(2).SS.

A course designed for teachers with limited science background. Basic concepts, use of simple materials for demonstrations, and the problem solving approach are stressed. Lecture and demonstrations. Available as a workshop.

Department of Chemistry (CHE)

Lawrence E. Brown, Chairperson

The objectives of the Department of Chemistry are to prepare students in chemistry for careers in industry, government service, high school and junior college level teaching and for continuing study in chemistry and related areas at the graduate or professional school level.

The department also strives to provide a basic understanding of the principles of chemistry and physical science related to all areas of scientific study and to provide the student with an appreciation for the impact of science and technology in today's society.

A major in chemistry leading to the Bachelor of Arts degree consists of 32 semester hours above the 1000 level. The required courses are: CHE 2201-2202, 2210, 3000, 3301-3302, 3303, 3304, 3404, 3405, 4000, 4400 and five semester hours elected from other chemistry courses. Chemistry 3307 and 3520 are not accepted. The chemistry major must take PHY 1150-1151; an additional six to eight hours in either biology (3300, 3301, 3308 and 4554 are recommended); physics (courses at the 1000 level and 3350 are not accepted); or geology (2010, 2020, and 3400 are recommended); and MAT 1110 and 1120. CHE 4560, Instrumental Methods of Analysis, is strongly recommended for this degree program.

The Bachelor of Arts degree as described in the preceding paragraph has been approved by the American Chemical Society's Committee on Professional Training.

A minor in chemistry consists of 12 semester hours above 1000 level chemistry (CHE 2210 recommended).

A major in chemistry leading to the Bachelor of Science degree consists of at least 22 semester hours above the freshman level. The required courses are CHE 2201, 2210, 3301, 3303, 3404, and seven hours selected from other chemistry courses. The chemistry major must take either PHY 1103-1104 or 1150-1151 (PHY 1150-1151 is required for the Certified Chemist concentration); an additional six to eight hours in either biology, physics (courses at the 1000 level and 3350 are not accepted), or geology; and MAT 1110 and 1120. The student must select teacher certification or a concentration in another career support area. This concentration must be approved by the department upon entering this degree program. Some concentrations currently available are listed below:

Certified Chemist concentration. The required courses, in addition to those listed above, are CHE 2202, 3000, 3302, 3304, 3405, 4000, 4400, 4560, and at least 3 s.h. additional work above the 3000 level. Chemistry 3307 and 3520 are not accepted. A course(s) in computer programming is strongly recommended. This degree has been approved by the American Chemical Society's Committee on Professional Training.

Pre-Professional and Paramedical concentration. BIO 1110 and CHE 2202 must be selected. The required courses are: BIO 2202, 3301, 3308, 3309, 4554 and CHE 4580.

Marketing and Business concentration. Several options are available, all require ACC 2100 and ECO 2030, plus an additional 12-18 s.h. The concentration should be developed in consultation with the Chairperson of the Department of Chemistry and must be individually approved.

Teacher Certification concentration. (for chemistry majors seeking teaching certification in Science Education—Six to eight semester hours of biology must be selected. CHE 3520 (Instructional Assistance) is required. For the requirements in teacher education, see the Department of Curriculum and Instruction.

Criminal Justice concentration. The required courses are: CJ 1100, 2020, 3551 and 3552, and CHE 4560. The remaining six hours should be chosen from: CJ 3150, 4020, 3060, or 4550.

Other concentrations. Additional concentrations to prepare the chemistry major to pursue other career opportunities may be developed in consultation with the chairperson of the Chemistry Department and must be individually approved.

All junior and senior students majoring in chemistry are expected to participate in weekly seminar discussion periods each semester in residence.

The Department offers a Master of Arts in Community, Junior and Technical College Teaching and in Secondary School Teaching; and a Master of Science degree. The

Walker College of Business offers a Master of Business Administration (MBA) with an emphasis of study in chemistry. Students interested in the MBA may complete the B.S. in chemistry and MBA prerequisite courses with emphasis of study in chemistry consists of 24 semester hours of business courses and 16 hours of chemistry including CHE 5050, 5060, 5070 and 5090. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Chemistry and Physical Science

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

CHEMISTRY

1101. Introductory Chemistry I/(4).F;S.

A study of the fundamental principles of chemistry emphasizing modern atomic theory, the structure and behavior of atoms, the properties and states of matter, energy relations, periodicity and mole concepts. Laboratory experiments to supplement the study of the listed topics. Lecture three hours, laboratory three hours.

1102. Introductory Chemistry II/(4).F;S.

A study of properties of solutions, acid-base concepts, equilibria, elementary thermodynamics, elementary kinetics, electrochemistry. Laboratory experiments to supplement the study of the listed topics. Lecture three hours, laboratory three hours. Prerequisite: CHE 1101.

1110. Introductory Chemistry IIA/(4).S.

A study of the practical aspects of chemistry as related to living systems including solutions, acid-base relationship, the chemistry of simple organic systems and their relationship to naturally occurring macromolecules. Laboratory experiments to supplement the study of the listed topics. Prerequisite: CHE 1101. Not open to science majors. Lecture three hours, laboratory three hours.

1200. Chemical Calculations/(1).F.

An introduction to logical problem solving as related to introductory chemistry. The course to be offered the same semester as Chemistry 1101 starting after the beginning of the semester. Cannot be taken after completion of introductory chemistry. Prerequisite: Permission of instructor. Graded on S/U basis.

2201. Organic Chemistry I/(4).F;S.

A study of the fundamental concepts and basic physical and chemical properties of the major classes of the compounds of carbon. Structure and reaction mechanisms will be introduced in relation to these properties and concepts. Laboratory practice in techniques and class reactions. Prerequisite: CHE 1102. Lecture three hours, laboratory three hours.

2202. Organic Chemistry II/(4).F;S.

An in-depth study of the structure, stereochemistry, and reactions of the major classes of organic compounds. Reaction mechanisms and spectroscopy will be emphasized. Laboratory practice in synthesis, modern separations, practical spectroscopy, and determination of unknowns. Prerequisite: CHE 2201. Lecture three hours, laboratory three hours.

2210. Quantitative Analysis/(4).F;S.

An introduction to analytical chemistry, including equilibria, Beer's law, oxidation-reduction reactions and chromatography; the basic methods of quantitative analysis are introduced and practiced with laboratory unknowns. Prerequisite: CHE 1102. Lecture two hours, laboratory six hours.

2500. Independent Study/(1-4).F;S;SS.

3000. Introduction to Chemical Research/(1).F;S.

An introduction to the techniques and methodology of chemical research. Pre- or corequisite: CHE 2210.

3301-3302. Physical Chemistry I-II/ (3-3). F.S.

Physical Chemistry I is a detailed treatment of the theories underlying the thermodynamic properties and behavior of gases, liquids and solids. Phase and chemical equilibria, electro-chemical cells and irreversible processes in solution. Physical Chemistry II is a treatment of kinetic molecular theory, kinetics, elementary quantum theory, symmetry and spectroscopy. Prerequisites: CHE 1102, MAT 1120, and a year of physics. Lecture three hours.

3303, 3304. Physical Chemistry Laboratory/ (1,1).F;S.

Experimental investigations which supplement the study of the topics in physical chemistry. Applications of computer techniques for data reduction and manipulation will be introduced and utilized. 3301 is co-requisite or prerequisite for 3303 and 3302 is co-requisite or prerequisite for 3304.

3307. Scientific Glass Blowing/(1).S.

Provides the student with an opportunity to learn the properties of scientific glasses with respect to performing simple glass working operations. Prerequisite: CHE 1102 and permission of the instructor. Laboratory three hours. This course will be graded on a S/U basis.

3404. Inorganic Chemistry/(3).S.

A detailed study of the elements and their compounds based on atomic structure and periodicity. Chemical bonding as it relates to molecular structure and chemical reactivity. Aqueous and non-aqueous solvent systems, acid-base theories, and the chemistry of complexes. Prerequisite: CHE 1102. Lecture three hours.

3405. Inorganic Chemistry Laboratory/(1).S.

Experimental investigations which supplement the study of inorganic chemistry, involving reactions in inert atmospheres, vacuum systems and hot tubes. Co-requisite or prerequisite: CHE 3404. Laboratory three hours.

3500. Independent Study/(1-4).F;S;SS.**3520. Instructional Assistance/(1).F;S;SS.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours. Required of all chemistry majors (B.S.) seeking teacher certification in Science Education.

3530-3549. Selected Topics/(1-3). On Demand.**4000. Chemistry Seminar/(1).F;S.**

The presentation and discussion of current chemical topics. Oral and written reports are required. Prerequisite: CHE 3000.

4400. Senior Research/(1).F;S.

A laboratory research project under the supervision of a staff member. An oral report of the work in progress will be made at the regular seminar and a written report of the results is to be submitted to the chemistry faculty upon completion. Laboratory: 4 hours (minimum). Pre- or corequisite: CHE 4000. May be repeated once for credit.

*Senior/Graduate Courses***4550. Inorganic Reaction Mechanisms/(3).S.**

A study of the kinetic and mechanistic nature of inorganic reactions. Included are substitution reactions of octahedral and square planar complexes, the stereochemistry of substitution reactions, isomerization and racemization reactions, oxidation and reduction reactions. Prerequisite CHE 3404. Lecture three hours.

4560. Instrumental Methods of Analysis/(4).F.

A study of some of the modern instrumental methods of analysis including electrochemistry, atomic and molecular spectroscopy, magnetic resonance spectrometry, mass spectrometry and gas chromatography. Prerequisite: CHE 2210. Lecture three hours, laboratory three hours.

4570. Physical Chemistry III/(3).F.

A study of theories of bonding and structure, including molecular symmetry, group theory and quantum mechanics, the molecular orbital theory, the ligand field theory and excited states. Prerequisite: CHE 3302. Lecture three hours.

4580. Biochemistry I/(3).F;S.

This course covers the properties of amino acids, proteins, carbohydrates, lipids and nucleic acids and presents a brief introduction to enzymology. Major emphasis is on the chemistry of biological compounds. An introduction to intermediary metabolism is also presented. Prerequisite: CHE 2202. Lecture three hours.

4581. Biochemistry I Laboratory/(1).F;S.

Experimental investigations which supplement the study of the topics in biochemistry. Chemistry 4580 is co-requisite or prerequisite to Chemistry 4581. Laboratory three hours.

4582. Biochemistry II/(3).S.

This course will cover the intermediary metabolism of amino acids, nucleic acids, carbohydrates and lipids. Metabolic pathways and their associated enzymes are emphasized. Prerequisite: CHE 4580 with CHE 3301 recommended but not required. Lecture three hours.

4590. Spectral Interpretations/(2).F.

A study of the use of spectral data for the identification of organic compounds. Techniques will include UV, IR, NMR, MS, ORD and CD in the identification process. Prerequisite: CHE 2202. Lecture two hours.

4591. Qualitative Organic Analysis Laboratory/(2).F.

Development of techniques for the separation, purification, identification and complete characterization of unknown organic compounds. Emphasis will be placed on classical reaction methods. Prerequisite: CHE 2202. Laboratory six hours.

4600. Selected Topics/(1-4). On Demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the chemistry curriculum. May be repeated for credit when content does not duplicate. Prerequisite: Upper-division status or departmental permission.

4610. History of Chemistry/(3).S.

A study of the development of chemistry as a science with emphasis on the development of

basic concepts, ideas and theories. Prerequisite: a year of introductory chemistry. Lecture three hours.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

PHYSICAL SCIENCE

1001. Physical Science/(3).F;S.

A study of selected physical science topics to include systems of measurement, the solar system, motion, energy and energy transformations, fluids, the Kinetic Theory of matter, electricity and magnetism. This course is structured principally to meet the physical science requirements for primary and elementary education majors. Other non-science majors may elect this course to fulfill general education science requirements. Lecture two hours, laboratory two hours.

1002. Physical Science/(3).F;S.

A study of selected physical science topics to include waves and wave behavior, radioactivity and nuclear chemistry, atomic structure, the Periodic Law, chemical bonds and chemical reactions, earth materials, and changes in the earth's crust, the atmosphere and the hydrosphere. This course is structured principally to meet the physical science requirements for primary and elementary education majors. Other non-science majors may elect this course to fulfill general education science requirements. Lecture two hours, laboratory two hours.

Department of English (ENG)

Loyd H. Hilton, Chairperson

The aim of the Department of English is to give students competency in written and oral composition and in the interpretation and appreciation of literature. To this end, all students are required to take, or be exempted from, the Freshman English Series 1000-1100. (*This sequence is prerequisite to all other courses in English.*)

A major in English leading to the Bachelor of Arts degree consists of 36 elective hours in English above the freshman level, six of which may be applied toward satisfying the general education humanities requirement. Although no course in English above the freshman level is specifically required, at least 24 hours of the work must be done at the 3000 level or above. Six hours of a foreign language above the elementary course level are required. Upon acceptance into the upper division as a major, the student should consult an English advisor for help in planning a program of study appropriate to the student's particular needs and objectives.

A minor in English consists of 18 elective hours in English above the freshman level, six of which may be applied toward satisfying the general education humanities requirement.

The Bachelor of Science degree in English, Secondary Education consists of 37 hours in English above the freshman level, six of which may be applied toward satisfying the general education humanities requirement.

Required courses include nine hours at the 2000 level. At least 25 hours of the work in English must be at the 3000 level or above. Required courses include 3200, 3300, 3490, 3520, 4660, and 3610 or 4610; 3200 is a prerequisite to 3490, 3520, and CI 3110 and 4900. The student elects 12 hours from an array of 3000- and 4000-level courses. Since teacher certification in English requires a balanced preparation in several areas, each student will be provided information indicating courses appropriate to current state and professional guideline requirements. Required also for the teaching degree are six hours of a foreign language beyond the elementary course level and LRE 4620, as well as the professional education courses and other criteria specified by the Reich College of Education. For the requirements in teacher education, see the Department of Curriculum and Instruction.

To receive further information, the student should report to the English department during the first semester of the junior year or, for transfer students entering as juniors or seniors, during the first semester at ASU. The student is expected to work closely with the English education advisor in fulfilling the degree requirements.

The Department of English offers the academic Master of Arts in English, the Master of Arts in English, Education with concentrations in Community, Junior and Technical College Teaching and Secondary School Teaching. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

The Department of English offers an honors program on the freshman, sophomore, junior, and senior levels. In order to remain in the program students must maintain at least a B average in honors work. Students meeting the requirements of the Junior-Senior Honors Program (ENG 3510, 3515, and 4510) with a grade of B or better and a 3.45 average in all English course work will graduate with "Honors" in English. Those meeting the requirements with a grade of A and a 3.65 average in all English course work will graduate with "High Honors" in English. Those meeting the requirements with a grade of A and a 3.85 average in all English course work will graduate with "Highest Honors" in English.

Overseas Study Program

In keeping with the University's belief that studies and travel abroad contribute to its role as an institution of higher learning, the English Department each summer offers students an opportunity to study either in England or on the continent, or in some instances a combination of both. The programs are directed by regular faculty members and offer opportunities for both supervised group study and individual investigation. Information is available each fall concerning the specific programs to be offered for

undergraduate and graduate credit. Students interested in the possibility of such study should make inquiry at the English office early in the school year.

Courses of Instruction in English

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

ENGLISH HONORS

1510. Freshman Honors Seminar/(3).F;S.

Development of individual research and original critical thought; composition. Collateral reading in English, American, or world literature. Members selected by the Department of English.

2510. Sophomore Honors Seminar in English, American, or World Literature/(3).F.

A study of major works, authors, genres, or literary movements in English, American, or world literature. By invitation or application.

2515. Sophomore Honors Seminar in English, American, or World Literature/(3).S.

A study of major works, authors, genres, or literary movements in English, American, or world literature. By invitation or application.

3510. Junior Honors Seminar/(3).F.

3515. Junior Honors Seminar/(3).S.

Two in-depth units each semester on major English, American, or world authors, genres, or literary movements. Intradepartmental instruction. Content varies each semester. By invitation or application.

4510. Senior Honors Thesis/(2).S.

Independent study and research. Honors thesis directed by a member of the English Department and graded by a departmental committee. Oral examination. Prerequisite: Completion of ENG 3510 and 3515 with at least a B average.

ENGLISH

0100. Laboratory in Writing/(0).F;S.

Providing self-instruction and tutoring, the laboratory is a university-wide service for any students who lack necessary skills in composition.

0900. Developmental English/(1).F.

Review in the basic principles of expository composition, with emphasis on mechanics, sentence structure, organization, word choice, and use of

details. S/U. Meets three hours per week for one hour of credit. Prerequisite to English 1000 for designated students.

1000. Composition and Rhetoric/(3).F;S.

An introduction to the various types of expository essays. A grade of C or higher in this course fulfills the English proficiency requirement for teaching majors.

1100. Introduction to Literature/(3).F;S.

Analysis of fiction, poetry, and drama. Continued emphasis on composition through literary essays. Prerequisite: ENG 1000.

ENGLISH 1000 AND 1100 ARE PREREQUISITES FOR ALL COURSES WHICH FOLLOW

2000. Workshop in Composition/(1).F;S.

A review in basic principles of effective composition designed primarily for transfer students. Satisfactory completion of the course fulfills the English proficiency requirement for teacher education students. Graded on S/U basis only.

2010. English Literature/(3).F.

A study of major writers from the beginning of British literature through the eighteenth century.

2020. English Literature/(3).S.

A study of major British writers from the Romantics through the present.

2030. World Literature/(3).F.

Masterpieces of the Western World from the classical period to the Renaissance, in translation.

2040. World Literature/(3).S.

Masterpieces of the Western World, in translation, from the Renaissance to the present.

2100. Modern Studies/(3).F;S.

A study of recent literature. Course content will vary and may concentrate on poetry, fiction, drama, or a combination.

2120. Black Literature/(3).S.

A critical study of the work of outstanding Black writers.

2170. Introduction to Film/(3).F;S.

A critical examination of notable examples of the filmmaker's art from silent movies up to the modern era, including a variety of film genres and including both American and foreign films.

2310. American Literature/(3).F.

A study of major writers from the beginning of American literature through the Romantics.

2320. American Literature/(3).S.

A study of major American writers from the beginning of realism through the present.

2500. Independent Study/(1-3).F;S;SS.

Independent research on a topic not offered in a scheduled course. Prior to registration, independent studies must be approved by the directing professor, the department chairperson, and the dean of the College of Arts and Sciences.

2530-2549. Selected Topics/(1-3). On Demand.

Content to vary; may be repeated for credit when content does not duplicate.

3100. Practical Writing/(3).F;S.

Development of applied writing skills: letters and memorandums, resumes, proposals, analytical and fact-finding reports, and other essential forms of professional communication and research.

3200. Advanced Composition/(2).F.

Practice in expository writing, with emphasis on effective style, sound structure, and correct mechanics. Required for teaching majors, this course is a prerequisite to English 3490 and 3520. It is recommended that ENG 3300 be taken prior to this course.

3300. Advanced Grammar/(2).S.

A study of the syntax of English as described by traditional grammarians with some attention to the descriptive principles of transformational grammar. Required for teaching majors.

3490. Workshop in the Teaching of English/(2).F.

Practical experience in the preparing and teaching of literature and composition. Prerequisite: ENG 3200. Required for teaching majors.

3500. Independent Study/(1-3).F;S;SS.

Directed, concentrated study of a special topic developed by the student.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or Senior standing and English 3200. May be repeated for a total credit of three semester hours. Required for teaching majors.

3530-3549. Selected Topics/(1-3). On Demand.

Content to vary; may be repeated for credit when content does not duplicate.

3610. Studies in the Principles of Language/(3).F.

An introduction to theories of language structure, language acquisition, and the functions of language within a cultural setting, with particular emphasis on semantics.

3650. Creative Writing/(3).F.

An introductory course in writing poetry and fiction, specifically the short story, with emphasis on techniques.

3660. Creative Writing/(3).S.

An advanced course in writing. Students may project a novel or work in poetry, drama, or the short story. Prerequisite: ENG 3650.

3720. Studies in the Short Story/(3).F.**3740. Studies in Poetry/(3).F.****3750. Studies in Drama/(3).S.***Senior/Graduate Courses***4590. World Literature/(3).F;S.**

A study of literary content, theories, and problems of a specific world-epoch.

4610. Modern English Grammar/(3). On Demand.

An examination of the syntactic structures of English as described by structural and transformational grammarians.

4660. History of the English Language/(3).S;SS.

A study of the phonological, morphological, and cultural development of English, with particular emphasis on phonology.

4730. The Novel/(3).S.

A study of selected novels from English, American and world literature.

4760. Literary Criticism/(3).S.

Studies of the classical critics in translation and of the contemporary critics, with emphasis on specific techniques.

4770. Early American Literature/(3).F.

Studies in the works of the founders of American political, religious, and literary culture as reflective of trends in intellectual history.

4780. Nineteenth Century American Literature/(3).S.

Examination of the major authors under whose leadership American literature achieved world prominence.

4790. Twentieth Century American Literature/(3).S.

A study of poetic and prose works most characteristic of modern American literature and thought. Emphasis on major writers.

4800. Colloquium/(1-4). On Demand.

Content to vary; may be repeated for credit when content does not duplicate.

4810. Folklore/(3).S.

A survey of folkloric genres (narrative, drama, song, proverb, riddle, custom, belief, game) with attention to their forms, transmission, and functions in traditional and urban societies.

4820. Early English Literature/(3).F.

An introductory study of medieval English literature and Middle English.

4830. Shakespeare I/(3).F.

A study of Shakespeare's comedies and histories.

4840. Shakespeare II/(3).S.

A study of Shakespeare's tragedies.

4850. Seventeenth Century English Literature/(3).S.

A study of literature written during the seventeenth century in England, with each offering limited to selected works.

4860. Restoration and Eighteenth Century Literature/(3).S.

A study of the literature written in England during the years 1660-1800. Each offering is limited to selected works and authors of the period.

4870. The English Romantic Movement/(3).F.

A study of selected works of Wordsworth, Coleridge, Southey, Scott and Byron, Shelley, Keats, with some attention to essayists and minor poets of the Romantic Movement.

4880. Literature of the Victorian Period/(3).F.

A study of selected major English poets, novelists, and essayists of the latter part of the nineteenth century.

4890. Twentieth Century British Literature/(3).F.

A study of major themes and literary techniques in Twentieth Century British Literature.

4900. Internship in Writing/Editing/(1-12). F;S;SS.

On-the-job work experience individually tailored to students' career orientation. Graded S/U.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Foreign Languages (FL)

Ramon Diaz-Solis, Chairperson

The Department of Foreign Languages teaches students to read, write and/or speak various languages, modern and old. Through the study of literature and other elements of culture, the department gives its students a better comprehension of the language and helps them to relate to people of different languages with greater deference and understanding.

A major in French leading to the Bachelor of Arts degree consists of 27 semester hours above the foreign language requirement, including 2010, 2020, 3010, 3020, 3050, 3060, 3070, 3080, 3090 or 4010. A major in Spanish leading to the Bachelor of Arts degree consists of 27 semester hours above the foreign language requirement, including 2010, 2020, 3015, 3025, 3030, 3045, 3050, 3070 and 4550. Recommended: 3090.

A minor in French or Spanish consists of 12 semester hours above the foreign language requirements, including 2010, 2020 and six semester hours of electives.

A minor in German consists of 12 semester hours above the foreign language requirement, including GER 3015 or 3025 and GER 3050 or 3060; GER 2010: Conversational German I (F); and GER 2020: Conversational German II (S), but excluding GER 3520, Instructional Assistance.

A minor in Latin consists of 12 semester hours above the foreign language requirement but excluding both LAT 2010: Mythology, and LAT 3520: Instructional Assistance.

The Bachelor of Science degree in French, Secondary Education with teacher certification consists of a minimum of 33 semester hours above the course level of 1020, including 1040, 1050, 2010, 2020, 3010, 3020, 3050, 3060, 3070, 3080, 3090 or 4010. The Bachelor of Science degree in Spanish, Secondary Education with teacher certification consists of a minimum of 33 semester hours above the course level of 1020, including 1040, 1050, 2010, 2020, 3015, 3025, 3030, 3045, 3050, 3070 and 4550. Recommended: 3090. The department recommends that a major in French or Spanish use electives to build up a teaching competence in a related field. For the requirements in teacher education, see the Department of Curriculum and Instruction.

The Department of Foreign Languages offers Master of Arts degrees in French and in Spanish with concentrations in Secondary School Teaching and Community, Junior and Technical College Teaching. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

International Economics and Business Options

Areas of study in international economics and business are available for students pursuing a Bachelor of Arts or a Bachelor of Science in Business Administration with a major in Economics. The program is jointly administered by the Department of Economics and the Department of Foreign Languages. Students participating in the program have an advisor in each department.

The program combines a major in Economics and a major or minor in a foreign language. Students are also advised to pursue a minor in International Business.

The various options are as follows:

Bachelor of Arts with a double major in Economics and one Foreign Language (French or Spanish)

Bachelor of Arts in Economics with a minor in French, German or Spanish
Bachelor of Science in Business Administration with a major
in Economics and a minor in French, Spanish or German.

Under all three options, the student is expected to demonstrate proficiency (reading and speaking) in the language selected. At least 15 hours of courses in the language, civilization and culture of the chosen country or area is recommended beyond the 1050 level. Also students are expected to participate, if possible, in any one or more of the following:

1. Pursue a minor in International Business (15 semester hours);
2. Complete a semester or summer session of business study abroad in the country of their choice;
3. Complete an internship abroad (usually 6 hours).

For further information, students should consult both the chairperson of the Department of Economics and of the Department of Foreign Languages.

The Foreign Language Laboratory

The Department of Foreign Languages has a 27-booth electronic language laboratory where students listen and respond to prerecorded tapes which deal with the material covered in their courses. The laboratory is also equipped with TV sets and VCR's for video learning. It's main purpose is to increase the student's ability to pronounce, speak, and understand the language. The laboratory increases the efficiency of language learning and the extra hours spent in it can be the student's most productive study time.

Courses of Instruction in Foreign Languages

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

FOREIGN LANGUAGES

2020. Every Man's Latin/(1).F.

Essential structures and historical evolution of Latin. Relation of Latin to English and other modern languages. The Latin underlying scientific, artistic and daily speech.

3500. Independent Study/(1-3).F;S.

3530-3549. Selected Topics/(1-3). On Demand.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

FRENCH

1010-1020. Elementary French/(3-3).F-S.

Understanding, speaking, reading and writing French. Audiolingual techniques are combined with required recording-listening practice in the language laboratory. Open to those with no previous preparation in French or those who make a low score on the French placement test. Recitation three hours and laboratory two hours a week.

1040-1050. Intermediate French/(3-3).F-S.

Intensive grammar review and training in understanding, speaking, reading and writing

French. Prerequisite: two units of high school French and a good score on the French placement test, or FRE 1010-1020, or the equivalent. Recitation three hours and laboratory two hours a week.

2010-2020. Conversational French and Phonetics/(3-3).F-S.

Practice in everyday conversational French and the improvement of diction. Practical study of the International Phonetic alphabet as it applies to French. Recitation three hours and laboratory two hours a week. Required of French majors. Prerequisite: FRE 1040-1050 or the equivalent, or by special placement.

2500. Independent Study/(1-3).F;S.

3010-3020. Introduction to French Literature/(3-3).F-S.

An introduction to the major writers of the French literary tradition and *explications de texte*. Selections and complete works of poetry, fiction, theater, and essay. In the first semester: Middle Ages through the 18th century. In the second semester: 19th and 20th centuries. Lectures and discussions; short essays and tests. Conducted in French. Required of French majors. Prerequisite: FRE 1040-1050 or the equivalent.

3050-3060. Culture and Civilization of France/(3-3).F;S.

Contemporary France as seen through its history, institutions and arts. Reading and discussion in French. Required of French majors. Prerequisite: FRE 1040-1050 or the equivalent.

3070-3080. Advanced Grammar, Syntax and Composition/(3-3).F;S.

A study of French grammar, idioms, and syntax. Prerequisite: FRE 1040-1050 or the equivalent. Required of French majors.

3090. Business French/(3).S. On Demand.

A study of the current specialized vocabulary pertinent to international trade and business. Selected readings from appropriate journals and magazines, plus attention to various types of business correspondence. Prerequisite: FRE 2010-2020 or the equivalent.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prere-

quisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

4010. Francophone Literature/(3). S. On Demand.

An in-depth study of French literature outside of France. Special consideration will be given to the themes and style of representative works from Africa, the Antilles, Madagascar, and Canada. Content will vary. Conducted in French. Prerequisite: FRE 2010-2020 or instructor's approval.

Senior/Graduate Courses

4555. History of the French Language/(3). On Demand.

The evolution of French from Latin to its present form; integral developments and external influences. Study of phonology, morphology and syntax of Old French and reading selected Old French texts. Required of French M.A. candidates.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

GERMAN

1010-1020. Elementary German/(3-3).F-S.

Open to those with no previous preparation in German. Recitation three hours and laboratory two hours a week.

1040-1050. Intermediate German/(3-3).F-S.

Prerequisite: two units of high school German or GER 1010-1020 or the equivalent. Recitation three hours and laboratory two hours a week.

2010-2020. Conversational German/(3-3).F;S.

Emphasis on acquisition of a practical vocabulary and active use of the language. Prerequisite: GER 1040-1050 or the equivalent or by special placement. Recitation three hours and laboratory two hours a week.

2500. Independent Study/(1-3).F;S.

3015-3025. Survey of German Literature/(3-3).F;S.

Representative works in the German language. In the first semester: Middle Ages through the 18th century. In the second semester: 19th and 20th centuries. Conducted in German. Prerequisite: German 1040-1050 or the equivalent.

3050-3060. Culture and Civilization of Germany/(3-3).F;S.

Study of German institutions, philosophy, literature, and art. Prerequisite: German 1040-1050 or equivalent.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

LATIN

1010-1020. Elementary Latin/(3-3).F-S.

Open to those with no previous preparation in Latin or those who make a low score on the Latin placement test. Recitation three hours a week.

1040-1050. Intermediate Latin/(3-3).F-S.

Prerequisite: two units of high school Latin and a good score on the Latin placement test, or LAT 1020, or the equivalent.

2010. Mythology/(3).S.

Examination of the chief Graeco-Roman myths, their influence on artists and writers of western culture, their place as examples of man's mythopoeic tendency. Open to all students. No prior knowledge of Latin required for enrollment.

2500. Independent Study/(1-3).F;S.

3010. The Aeneid/(3).F.

Prerequisite: LAT 1050 or four years of high school Latin or permission of the instructor. Key passages are selected for translation and discussion. Lecture three hours. Offered odd-numbered years.

3020. The Roman Historians/(3).S.

Prerequisite: LAT 1050 or four years of high school Latin or permission of instructor. Translation of selected passages and discussion of literary values of Livy, Sallust and Tacitus. Lecture three hours. Alternate years with 4020.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct par-

ticipation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

4010. Roman Satire/(3).F.

Selections from Horace and from Juvenal will be read. Discussions will include each poet's specific characteristics and his influence on western culture. Alternate years with 3010.

4020. Roman Comedy/(3).S.

Selections from the comedies of Plautus and Terence will be read. Discussions will include the practice of *contaminatio* and the playwright's influence on western culture. Alternate years with 3020.

SPANISH

1010-1020. Elementary Spanish/(3-3).F-S.

Understanding, speaking, reading and writing Spanish. Development of knowledge of Spanish culture. Open to those with no previous preparation in Spanish or those who make a low score on the Spanish placement test. Recitation three hours and laboratory two hours a week.

1040-1050. Intermediate Spanish/(3-3).F-S.

Further development of understanding the Spanish language and culture through review of structures with emphasis on oral and reading comprehension and self-expression through speaking and writing. Prerequisite: two units of high school Spanish and a good score on the Spanish placement test, or SNH 1010-1020 or the equivalent. Recitation three hours and laboratory two hours a week.

2010-2020. Conversational Spanish/(3-3).F-S.

Emphasis on acquisition of a practical vocabulary and active use of the language. Prerequisite: SNH 1040-1050 or the equivalent or by special placement. Recitation three hours and laboratory two hours a week.

2500. Independent Study/(1-3).F;S.

3015-3025. Survey of Spanish Literature/(3-3).F;S.

Major writers of Spain. In the first semester: Middle Ages through the 18th century. In the second semester: 19th-20th centuries. Required of Spanish majors. Conducted in Spanish. Prerequisite: SNH 1040-1050 or the equivalent.

3030. Survey of Spanish-American Literature/(3).S.

A study of Spanish-American literature, including Pre-Columbian works and works from the time of the colony up to the present. Required of Spanish majors. Prerequisite: SNH 1040-1050 or the equivalent.

3045. Culture and Civilization/(3).F.

An outline of the history and culture of Spain. Required of Spanish majors. Prerequisite: SNH 1050 or the equivalent.

3050. Culture and Civilization of Spanish-America/(3).S.

A description of historical events, currents of thought, artistic trends, aboriginal and European inheritance and other factors which significantly contributed to the shaping of the peculiar Spanish-American vision and practice of life. Required of Spanish majors.

3070. Advanced Composition and Grammar/(3).F.

A study of the morphology, syntax, and idioms in the Spanish language. Prerequisite: SNH 2010-2020. Required of Spanish majors.

3090. Business Spanish/(3). On Demand.

A study of the current specialized vocabulary pertinent to international trade and business.

Selected readings from appropriate journals and magazines, plus attention to various types of business correspondence. Prerequisite: SNH 2010-2020 or the equivalent.

3500. Independent Study/(1-3).F;S.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

Senior/Graduate Courses

4550. Spanish Phonetics and Diction/(3).S;SS.

A study of systems of sounds in Spain and Spanish-America, including oral practice in laboratory. Prerequisite: SNH 2010-2020. Required of Spanish majors.

4555. History of the Spanish Language/(3). On Demand.

Study of the evolution of Spanish. Required of Spanish M.A. candidates.

Department of Geography and Planning (GHY/PLN)

Neal G. Lineback, Chairperson

The major objectives of the Department of Geography and Planning are to:

1. Promote the understanding of the spatial dimensions of human behavior within the physical and cultural systems of the earth and the role of planning in achieving improvement in those systems.
2. Offer a well-balanced curriculum which will aid students in finding productive places in society.
3. Maintain a staff dedicated to teaching, scientific research, and community-regional service.

Bachelor of Arts Degree in Geography (BA)

A major in geography leading to the Bachelor of Arts degree consists of 36 semester hours in geography courses numbered above the 1000 level with the following courses required: GHY 2310, 3100, 3110, 3210, 3310, 4200, 4800 and 4830; 9 semester hours of geography and planning electives, with at least three hours taken from regional courses. STT 3810 and an appropriate foreign language is required.

Bachelor of Science Degree in Geography (non-teaching) BS

A major in geography leading to the Bachelor of Science degree (without teacher certification) consists of 36 semester hours in geography and planning above the 1000 level. Required courses include GHY 2310, 3100, 3110, 3200, 3210, 3310, 4200, 4800, 4830, PLN 2410 and six semester hours of electives. STT 3810 and one of the two following concentrations is also required:

1. The general geography concentration requires five to six semester hours in statistics and/or computer applications. In addition the student must take a minimum of 15 semester hours in approved ancillary courses.
2. The concentration in computer cartography includes GHY 2812, 3812, and 6 to 12 hours of GHY 4900, six hours in approved IET, Computer Science, Physics, or other computer application courses.

Bachelor of Science in Social Science (with teacher certification and concentration in Geography)

The department also provides a concentration of twelve semester hours in geography beyond the social science core requirements for majors in social science seeking the Bachelor of Science degree and teacher certification. These twelve hours include GHY 2310, 3013, 3200, and 3210. For the social science requirements, refer to the index. For the requirements in teacher education, see the Department of Curriculum and Instruction.

Minor in Geography

A minor in geography consists of 18 semester hours, including general education requirements, and at least three hours in regional courses.

A major in Community and Regional Planning leading to the Bachelor of Science degree consists of a minimum of 61 semester hours as follows:

1. Core courses for all majors include GHY 2310, 3310, PLN 2410, 2812, 3431, 3730, 4700, 4800, 4830, and 4900; STT 3810; CS 1410 or another computer science programming course.
2. At least 13 semester hours of electives must be selected from: FIR 2850; ECO 4800; GHY 3200, 3210, 4200; GLY 1200; HIS 3824; PS 2130, 2160; SOC 4100, 4300.
3. At least six additional semester hours of electives must be courses selected with the approval of the advisor of the planning program.

Minor in Community and Regional Planning

A minor in Community and Regional Planning consists of 20 semester hours including PLN 2410, 3431 and 3720, and nine hours chosen from among the non-planning courses listed as required or electives within the major of the planning program or other appropriate courses selected with the approval of the advisor of the planning program.

The Department of Geography and Planning offers the Master of Arts degree in Social Science Education, Secondary School Teaching and Community, Junior and Technical College Teaching and a Master of Arts in geography. Persons interested in any of these degree programs are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Geography

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

GEOGRAPHY

1010. Introduction to Physical Geography/(3). F;S;SS.

A comprehensive study of our physical earth emphasizing the distributional patterns and inter-relatedness of its land, soils, natural vegetation and habitat, and weather and climate. Examinations of environmental issues including hazardous wastes, acid rains, floods, droughts, deforestation and air pollution.

1020. World Regional Geography/(3). F;S;SS.

The study of our contemporary world divided into the regions of North America, Central and South America, Africa, the Middle East, Europe, the Soviet Union, and South, East and Southeast Asia. Examination of global issues including population problems, technology and culture change, rural versus urban development, resource exportation and international trade, political identity and international conflict.

2310. Map Interpretation and Map Making/(3). F;S.

This course introduces the student to the relevance of maps, methods and techniques of map interpretation and classification. It also provides training in map design, data analysis and drafting with appropriate instruments. Some materials and equipment must be provided by the student.

2500. Independent Study/(1-4).F;S;SS.

2812. Microcomputers in Geography and Planning/(3).F;S;SS.

Basic computer skills common to the work environment of geographers, planners and others interested in the graphic presentation of geographic data. Includes word processing, file generation, database management and the generation of graphics. Recommended also for majors in industrial arts, art, and criminal justice.

3011. Europe/U.S.S.R./(3).S.

A study of this region's contemporary geographic condition. Emphasis on resource development, superregional cooperation, environmental problems, industrial shifts, marketing and international trade, relations with the United States, and the potential for internal and international political stress.

3013. North Carolina/(3).F.

The study of contemporary conditions and problems of land and people in a southern state. Topics include: economic development and potential for change, population mobility, urbanization and the impact of development in rural and environmentally fragile areas, regional impact of changing life styles, national and international interdependence. Recommended for future North Carolina teachers, public administrators and business leaders.

3100. Weather and Climate/(3).F.

Introductory concepts of atmospheric processes and their relationships to people are developed. Student is familiarized with instruments used to measure and record weather phenomena. The world pattern and characteristics of climates and the human response are examined. Two hours lecture and two hours laboratory. Prerequisite: GHY 1010 or permission of instructor.

3110. Vegetation, Soils, and Landforms/(3).S.

A systematic analysis of the spatial characteristics of vegetation, soils, and landforms especially as they interact in the North American realm. Consideration is given to the processes affecting the ecosystem and their relation to people's activities. Two hours lecture and two hours laboratory. Several extensive field trips are taken. Prerequisite: GHY 1010, or permission of instructor.

3200. Geographic Perspectives on Human Behavior/(3).S.

An approach to understanding the ways in which people perceive, behave in and structure their geographical environment. The course emphasizes variations in spatial behavior such as the uses of personal spaces and social territories, choosing locations for social activities, migration, and diffusion of ideas and innovations across geographical space and regional organization. Solutions to contemporary problems are stressed.

3210. Economic Geography/(3).F.

The spatial analysis of economic systems dealing with the location, collection, distribution, and accessibility factors associated with the functional interrelationships between manufacturing, transportation-communications, and markets. Students will be involved in location problem solving and field work. Recommended for business majors.

3310. Environmental Remote Sensing/(3).S.

This course introduces the student to the kinds of remote sensing techniques presently available for environmental analysis. It provides for study of a wide variety of aerial photographs and space images and their interpretation in the field. Lecture two hours, laboratory two hours.

3400. Recreational Land Use/(3).S.

A study of selected recreational phenomena including their regional and local setting, design, organization and use. Field trips are taken to local resorts and other recreation areas. Course is especially appropriate to majors in leisure studies and resort management.

3500. Independent Study/(1-4)F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

3812. Computer Assisted Cartography/(3).F.

Theory, process and application of computer assisted cartography and geographic information systems. Emphasis on project work to maximize experience with computer mapping principles, hardware and software. Two hours lecture; two hours laboratory. Prerequisites: GHY 2310 and 2812 or their equivalents.

4200. Urban Geography/(3).S.

Spatial organization of human activity focusing on the evolution and organization of city systems, the internal structure of urban areas, and urban problems, policies and planning with emphasis on problem solving and field work. The course is applied in nature and recommended for majors in social studies, business, and planning.

4230. Political Geography/(3).F.

Spatial aspects of territoriality, boundaries, voting patterns, government programs, formation of political units, political development and integration, and environmental policy.

Senior/Graduate Courses

4800. Quantitative Methods/(3).S.

The study of the quantitative methodology relating to the analysis of relationships between man and his physical environment, their spatial consequences, and the resulting regional structures that have emerged on the earth's surface. Prerequisites: STT 3810 and senior status, or permission of instructor.

4830. Senior Seminar/(3).S.

A capstone experience in which student will prepare a research or project proposal leading to a finished product to be presented before peers and departmental faculty members. Majors of senior standing only.

4900. Internship in Geography and Planning/(3-12).F;S;SS.

The internship emphasizes field work in the areas of locational analysis, environmental assessment

and impact, and/or land use planning and is conducted jointly with an appropriate public or private agency. The type of internship, location of field experience, and sponsoring agency must be satisfactory to the student and to the department. A research paper is required. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

COMMUNITY AND REGIONAL PLANNING

2410. Introduction to Planning/(3).S.

Introduction to the principles, philosophy, and theories of planning. Emphasis is placed on planning approaches to the solution of contemporary regional, urban, and environmental problems. Students will participate in several field trips.

2500. Independent Study/(1-4).F;S;SS.

2812. Microcomputers in Geography and Planning/(3).F;S;SS.

Basic computer skills common to the work environment of geographers, planners and others interested in the graphic presentation of geographic data. Includes word processing, file generation, database management and the generation of graphics. Available to majors in industrial arts, art and criminal justice.

3431. Planning Techniques/(5).F.

The student gains insight into the planning process at all levels, becomes acquainted with the range of factors germane to planning and acquires the skills and techniques for preparing a community plan. Two hours lecture, six hours laboratory.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

3730. Land Use Regulations/(3).F.

The study of zoning, subdivision, and other land use regulations with particular reference to North Carolina applications. The role of environmental impact statements, floodway zoning, historic districts, community appearance commissions, as well as the role of the courts in defining land use regulations is also considered.

Senior/Graduate Courses

4700. Project Management/(3).S.

Simulated experiences in dealing with the complex procedures pertinent to planning individual projects, including the development, review, approval, monitoring, and management thereof. Emphasis is also placed on preparing proposals for external funding of community improvement projects. Open to geography, planning, political science, real estate and leisure studies majors; others by permission of instructor.

4800. Quantitative Methods/(3).S.

The study of the quantitative methodology relating to the analysis of relationships between people and their physical environment, their spatial consequences, and the resulting regional structures that have emerged on the earth's surface. Prerequisites: STT 3810 and senior status, or permission of instructor.

4830. Senior Seminar/(3).S.

A capstone experience in which student will prepare a research or project proposal leading to a finished product to be presented before peers and departmental faculty members. Majors of senior standing only.

4900. Internship in Geography and Planning/(3-12).F;S;SS.

The internship emphasizes field work in the areas of locational analysis, environmental assessment and impact, and/or land use planning and is conducted jointly with an appropriate public or private agency. The type of internship, location of field experience, and sponsoring agency must be satisfactory to the student and to the department. A research paper is required. Graded on an S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Geology (GLY)

Fred Webb, Jr., Chairperson

Purposes of the Department of Geology are:

1. To provide all students with the opportunity to learn basic scientific principles through the study of geology.
2. To introduce students to the many ways in which geology is interwoven into the fabric of modern civilization.
3. To provide geology majors with the sound background requisite for productive work in their profession and graduate studies.
4. To provide students in the Earth Science concentration (under the BS in Science Education) with the opportunity to become competent earth science teachers.

A major in geology leading to the Bachelor of Arts degree is recommended for those students who intend to pursue graduate studies in geology after graduation at Appalachian. The program consists of the following, in addition to general requirements for B.A. degrees in this college as stated elsewhere in this catalog:

A major leading to non-teaching Bachelor of Arts or Bachelor of Science degrees in geology consists of a minimum of 36 semester hours of geology courses above the 1000 level. Required courses for each degree include GLY 2000, 2010, 2020, 3000, 3020, 3200, 3400, 4210, 4211, **either 4650 or 4501** and 4510, an approved six semester-hour geology summer field course, and three hours of geology electives. In addition, both degree programs require MAT 1110 and 1120, CHE 1101 and 1102, and PHY 1150 and 1151.

Other requirements for the B.A. degree include an additional three semester hours of courses in the Department of Mathematical Sciences.

Additional requirements for the B.S., non-teaching, degree are either six semester hours of statistics or eight semester hours of computer science, including CS 1410 and either CS 1400 or 1440 (MAT 1100 may be taken to complete the eight hour requirement). The minor must be approved by the department.

During the senior year, the B.A./B.S. (non-teaching) student must take and achieve a satisfactory score on a comprehensive examination covering theoretical and practical aspects in areas of geology. Students who are unsuccessful on portions or all of the examination may retake appropriate portions up to two additional times before graduation. In addition, all non-teaching majors are required to take the graduate record examination (advanced portion required although both portions are recommended) and have scores reported to the department prior to graduation. No minimum score is required on the GRE.

A minor in geology consists of GLY 1101 and 1102, plus either GLY 2010-2020 or GLY 2450, and an additional six hours of geology courses numbered above 1199.

A concentration in Earth Science leading to the B.S. degree and teacher certification in Science Education requires GLY 1101, 1102, 1103, 1200, 2450, 3300, 4850, 3 hours of geology electives, and GLY 3520 (instructional assistance in GLY 1101, 1102, and 1103) (CI 2800 may be substituted for 1 hour of GLY 3520). Also required is GHY 3100 and 3110, CHE 1101 and 1102 or PHY 1103 and 1104, BIO 1101 and 1102, MAT 1020 or 1025 and 3910 or 3920, and PHY 1001-1002. See also Curriculum in Science Education for information on sciences. For the requirements in teacher education, see the Department of Curriculum and Instruction.

Courses of Instruction in Geology

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

GEOLOGY

1101. Introduction to Physical Geology/(3).F; SS.

Introduction to the composition, origin, and modification of earth materials through study of geological cycles; principles of geology demonstrated through use of practical examples. This course plus either Geology 1102 or Geology 1103 will fulfill the one year General Education natural science requirement. Lecture two hours, laboratory two hours.

1102. Introduction to Historical Geology/(3).S;SS.

Survey of principles of study of the earth's past and its inhabitants; and overview of the history of the earth and its inhabitants, with emphasis on North America and the Appalachian Mountains. Lecture two hours, laboratory two hours.

1103. Introduction to Applied Geology/(3).S; SS.

Survey of principles of the study of physical and chemical processes that change the earth's crust and surface through modification of earth materials; principles of origin, distribution, availability, and exploration of earth's mineral resources; emphasis on applications of principles of geological science to solutions of practical problems. Lecture two hours, laboratory two hours.

1200. Environmental Geology/(2).S.

Application of the geological sciences to environmental problems; study of geologic hazards and potentials, using case histories. Lecture two hours.

1510. Geological Science Honors - Physical/(4).F.

The origin, composition, and modification of the earth and earth materials through geologic time. Physical and chemical principles are used to evaluate earth processes. This course plus Geology 1511 will fulfill the one year General Education natural science requirement. Prerequisite: MAT 1020 or high school equivalent. Enrollment by invitation of the department or by application. Lecture three hours, laboratory two hours.

1511. Geological Science Honors - Historical/(4).S.

Geochronology, based on biological and physical principles, and the biological principle of evolution and genetics are used in conjunction with geologic principles to evaluate earth history and the history of life. Prerequisite: GLY 1510. Enrollment by invitation of the department or by application. Lecture three hours, laboratory two hours.

2000. Preparation of Geologic Reports/(3).F.

This course consists of instruction in basic methods of field data collection, laboratory analysis of field data, and geological library research; plus organization and presentation of written and oral geologic reports. Prerequisite: GLY 1101; open only to geology majors. Lecture two hours, laboratory three hours.

2010. Mineralogy/(2).S.

Fundamentals of crystallography and crystal chemistry as applied to minerals; identification,

classification, and description of crystals and minerals by chemical composition. Prerequisites: GLY 1101 and 1102 or 1103, and General Chemistry, or consent of the instructor. Lecture one hour, laboratory three hours.

2020. Crystallography/(2).S.

The study of crystals, including their growth, structure, physical properties, and classification by form. Lecture one hour, laboratory three hours. Chemistry 1101 is prerequisite or may be taken concurrently.

2450. Minerals, rocks, and fossils/(4).

On Demand.

A study of the nature of minerals, including crystal form; the origin of common rock-forming and economically important minerals; the classification and origin of common rocks; the history of plants, invertebrate, and vertebrate animals; the sequence of major events in the history of life; and the evolution of ecosystems. This course is not open to geology majors for credit. Prerequisites: Geology 1101 and 1102. Lecture two hours; laboratory five hours (2.5 hours, twice each week).

2500. Independent Study/(1-4).F;S;SS.

3000. Introduction to the Petrology and Structure of the Earth/(5).F.

Characteristics, classification, and genesis of common rocks; earth structure; stress and strain; and the nature and origin of microscopic, mesoscopic, and macroscopic scale structures are introduced in this course. Prerequisites: GLY 2000, 2010, 2020, and Chemistry 1101-1102. Lecture three hours, laboratory five hours.

3020. Analysis of Geologic Structures/(2).F.

Field and laboratory study and analysis of geologic structures of mesoscopic and macroscopic scale are major topics covered by this course. In addition to laboratory and field projects, short reports and graphic representation of data - including analysis - are required. Prerequisites: GLY 2010, 2020; GLY 2000 is corequisite or prerequisite. Lecture one hour, laboratory three hours.

3100. Optical Mineralogy/(3).F.

Theory and use of the transmitted light, polarizing microscope in the study of common rock-forming minerals is the focus of this course. Grain mounts are used in the study of principles and thin-sections analysis is introduced. Prerequisite: GLY 2010 and 2020. Lecture two hours, laboratory three hours.

3200. Introduction to Stratigraphy and Sedimentology/(3).S.

Properties, classification, and depositional models of sedimentary rocks. Principles of collection and interpretation of stratigraphic data; emphasis on field relationships. Prerequisite: GLY 2010. Lecture two hours, laboratory three hours.

3300. Geomorphology and Remote Sensing(4). On Demand.

This course includes a study of the nature and origin of landforms. Qualitative and quantitative aspects of landform analysis in the field and laboratory using maps, aerial photographs, and satellite imagery are introduced. Prerequisites: GLY 1101, 1102 or 1103. Lecture three hours, laboratory three hours.

3350. Earth Science Investigations/(3). On Demand.

A course for elementary education majors with a concentration in science. Study of the composition of the earth, the physical processes continuously changing it, and the history of life, with emphasis on man's interaction with the earth. Activities suitable for presenting the material to elementary school students will be stressed. Lecture two hours, laboratory two hours. This course is not available to anyone who has previously completed GLY 1101.

3400. Introduction to Paleontology/(4).S.

Morphology, phylogeny, temporal distribution, and paleoecology of fossils, with emphasis on invertebrates. Prerequisites: GLY 2010 or Biology 1102. Lecture three hours, laboratory three hours.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

4210; 4211. Geology Seminar/(1).F;S.

Presentation and discussion of current topics, with emphasis on tectonics and historical geology during fall term; emphasis will be on student projects, petrology, and surficial processes during spring term. Prerequisite: senior standing geology major.

4220. Topics in Advanced Petrology/(3).F.

Igneous and metamorphic rocks, with emphasis on current ideas regarding their origin and significance, are the focus of this course. Thin section analysis, field observations, and theoretical analyses are emphasized. Prerequisites: GLY 3000, 3100. Lecture two hours, laboratory three hours.

*Senior/Graduate Courses***4501. Senior Research/(1).F.**

Initiation of a laboratory or field research project under supervision of a geology faculty member. Prerequisite: open only to senior geology majors with a minimum GPA of 3.00 in geology courses.

4510. Seniors Honors Thesis/(3).S.

Completion, under supervision of a geology faculty member, of the project begun in Geology 4501. An oral report on the project will be presented in the spring Geology Seminar. Minimum of 5 hours laboratory or field work per week. A written thesis will be presented to the department. A student who completes the thesis with a grade of B or better and who graduates with a GPA of 3.5 in geology courses will be graduated with "honors"

in Geology; with a grade of A and a geology GPA of at least 3.7, the student will be graduated with "highest honors" in geology. Prerequisite: Geology 4501; senior geology majors with minimum of 3.00 GPA in geology courses.

4650. Economic Geology and Exploration Techniques/(4).F.

Principles, processes, and distribution of major metallic and selected non-metallic mineral deposits with type illustrations; geochemical and geophysical exploration techniques as applied to mineral exploration stressed in laboratory. Prerequisites: GLY 2010 and 3000. Lecture three hours, laboratory three hours.

4850. Introduction to Oceanography/(2).F.

Physical, chemical, biological, and geological oceanography and their interrelationships. Prerequisites—at least two of the following courses: BIO 1103-04, CHE 1101-02, GLY 1102, and PHY 1101-02. Lecture two hours.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of History (HIS)

George P. Antone, Chairperson

The study of history is an essential part of a liberal arts education and offers a valuable preparation for careers in law, journalism, public and applied history; in local, state, and national public service; in business, where a knowledge of domestic and foreign affairs is desirable as well as in teaching and the advanced study of history. By exposing students to a variety of cultures and human experience and by training them in the interpretation of conflicting evidence, the history department seeks to prepare the major for the responsibilities of citizenship and for dealing with the ambiguities of human existence. Thus the department's program is designed to provide students with a knowledge of their own cultural tradition and an appreciation of other cultures and societies of the past.

The Department of History offers a broad curriculum in local, national, regional, and world history. Diversity in the program encourages the history major to develop a comparative approach to human problems and discourages parochialism; specialization in the major promotes an appreciation of the complexity of human affairs and the difficulties involved in interpreting them. Finally, the discipline of history provides an intellectual challenge as well as a stimulus to the imagination and to analytical thinking.

Undergraduate Advisement Office

Information about History Department programs can be obtained from the Undergraduate Advisement Office in Room 204 of Whitener Hall. The Advisement Office is open daily and is staffed by faculty advisors who assist with academic scheduling, explain departmental and university requirements, and provide descriptions of new and existing courses and information on career development.

Departmental Learning Laboratory

A History Department Learning Laboratory is an important component in the instructional program offered by the History Department. This laboratory serves students as a developmental center where assistance with study, reading, or testing skills can be obtained; an enrichment center for students who want to use available equipment and materials for projects conducted outside class; and a study center for those who need to complete assignments in audiovisual or reserved reading materials.

Bachelor of Arts Degree BA

The Bachelor of Arts degree in history consists of 33 semester hours in history beyond the General Education history requirement, including six hours from History 2201, 2204 (United States History); History 2599 (History Scope and Method); and twenty-four hours of general course work. Majors should register for History 2599 in their sophomore year or in the first semester after they elect to major in history. The twenty-four hours of general course work must be distributed among three geographic areas of study: (1) European history; (2) United States history; (3) non-Western history, including Africa, Asia, Latin America, and the Middle East. Majors are required to take a minimum of twelve semester hours in one of these areas and a minimum of six hours in each of the two remaining areas. History majors seeking the BA degree are also required to acquire proficiency in a foreign language equivalent to courses 1010 through 1050, and to complete a minor in a related discipline.

Bachelor of Science Degree in History, Secondary Education BS-Teaching

The Bachelor of Science Degree consists of at least 30 semester hours in history beyond the General Education history requirement, 30 semester hours of professional education courses, and 27 hours in related social science disciplines. A foreign language is strongly recommended. For teacher education and certification requirements see catalog section for the College of Education.

Bachelor of Science Degree (non-teaching) BS

The Bachelor of Science (non-teaching) degree, with a multidisciplinary concentration in a history-related career area, consists of an acceptable program of 60 semester hours, including a minimum of 33 semester hours in history, as described for the Bachelor of Arts degree, and a minimum of 27 semester hours in a career-oriented concentration, with courses drawn from various departments and disciplines. Examples of general areas of career-orientation, around one of which the student may design a program, are: Business (designated minor in College of Business) and Government Service (with courses in political science, sociology, psychology, economics, geography, and other fields related to specific career interests).

Bachelor of Science in Social Science Education (with teacher certification and concentration in History.)

The BS in Social Science Education with a concentration in history consists of 36 semester hours in the social sciences, including History 1101, 1102, 2201, 2204, 2599, and 3728, and an additional 9 hours in history for the concentration. 30 semester hours in professional education courses are required. Since this degree program requires careful planning, interested students should contact the undergraduate advisor in the Department of History early in their academic career. For a list of required courses in the Social Science curriculum, as well as education and certification requirements, see the appropriate sections in the catalog under the College of Education and the Department of Curriculum and Instruction

Applied/Public History Concentration

BS students may also opt for career preparation in public service fields such as cultural resources management, historic site interpretation, architectural preservation, planning, and cultural journalism. Careers in Applied/Public History require a thorough grounding in local, social, and cultural history; an understanding of public policy; and performance skills in areas such as planning, preservation and conservation techniques, records management, historic interpretation, and grantsmanship. Students in the Applied/Public History concentration are required to take History 4578 (Introduction to Applied History). Non-history courses appropriate for this concentration are listed on the Applied/Public History checksheet available in the History Department Undergraduate Advisement Office.

All BS programs are to be planned in consultation with the undergraduate advisor in the Department of History and are subject to the advisor's approval. Students are urged to plan their programs as early as possible in their academic careers, but not later than three semesters before anticipated graduation.

Minor in History

A minor in history consists of 18 semester hours above general education requirements, including History 2201 and 2204. For sections describing an interdisciplinary minor in Black Studies and an interdisciplinary minor in Latin American Studies, refer to index.

History Department Honors Program

The department offers honors courses on all undergraduate levels which are open to students who have distinguished themselves. Honors courses carry full credit toward the major or, for non-majors, full elective credit. Subject to the recommendation of the Departmental Honors Committee, a student will be considered for graduation with "Honors in History" upon successful completion of at least one semester of honors work in world civilization or American civilization, one junior honors seminar, a senior honors thesis, and an examination. Those meeting these requirements with the grade "A" will be considered for graduation with "Highest Honors in History."

Master of Arts Degree in History

The Department of History offers a Master of Arts in History Education with concentrations in Community, Junior and Technical College Teaching, or Secondary School Teaching. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in History

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

HISTORY HONORS

1510. Freshman Honors Colloquium/(3).S.

Study of a selected topic in the history of world civilizations. Enrollment by invitation of the department or by application.

2510. Sophomore Honors Colloquium/(3).F,S.

Study of a selected topic in American history. Enrollment by invitation of the department or by application. A history major may substitute 2510 for any three semester hours of the sophomore modules in United States History.

3510. Advanced Honors Seminar/(3).F,S.

Seminar on a selected historical topic. Enrollment by invitation of the department, or by application.

4510. Senior Honor Thesis/(1-3).F,S.

Independent study and research for an honors thesis; directed by a member of the History department. Prerequisite: completion of an approved honors sequence, including HIS 3510. Enrollment by invitation only.

HISTORY

1101. World Civilization/(3).F;S.

An introduction to the development of world civilizations from ancient times to 1650. Selected topics trace the ancient, medieval, and early modern periods with stress on western ideas and institutions.

1102. World Civilization/(3).F;S.

An introduction to the development of world civilization from 1650 to the present. Emphasis is placed on the revolutionary epoch, the age of industrialization, imperialism, and ideology, and the modern global society.

2101. The World since 1945/(3).F.

A survey of global developments since 1945 in an historical context, including political changes such as the Cold War and the changing balance of power, decolonization and economic dependency

in the non-western world; militarism and terrorism; environmental issues such as resource depletion and pollution; and the internationalization of the world.

2201. Survey of American Civilization to 1876/(3).F;S.

An examination of United States history to 1876, tracing the American experience from the colonial era through the Civil War and Reconstruction.

2204. Survey of American Civilization since 1876/(3).F;S.

An examination of United States history since 1876 tracing the American experience from the Gilded Age down to the contemporary era.

2207. Themes in American Civilization: North Carolina and the Southern Region/(1).F;S.

A survey of major characteristics of North Carolina and the southern region, with emphasis on the teaching of these topics in elementary school. Designed for Childhood Education majors.

2208, 09. Themes in American Civilization/(1,1).F;S.

A modular-based introduction to the study of American Civilization, offered in topical segments. Students may enroll in one or more modules examining varying subjects, such as American business and labor, the national character and the concept of destiny, rural and urban America, women and the family in American life, and American minorities.

2301. History of Colonial Latin America/(3).F.

A survey of Latin America from the ancient Indian civilizations to the wars for independence. Topics include the ancient Maya, Aztec, and Inca Indians; the European discovery, conquest, and colonization of the New World; the colonial administration and exploitation of the Americas; and the independence movements which usher in the national period.

2302. History of Modern Latin America/(3).S.

A survey of Latin America from independence to the present. Topics include the legacy of independence; the rise of the great dictators; causes of instability and social change; twentieth-century revolutions; and the effects of United States policy in the region.

2401. History of Asia to 1500/(3).F.

A broad comparative survey investigating the formation of great cultural traditions in India, China, and Japan. The course begins with the birth of these civilizations and the formation of their distinctive ethical and political structures and concludes with the spread of these structures into southeast and northeast Asia and the appearance of European merchants in the east.

2402. History of Asia since 1500/(3).S.

Continues to compare the development of distinctive cultural processes and patterns in India, China, and Japan from 1500 and the advent of European merchants, through European domination, to Asian reaction, revolt, and eventual independence. The course concludes with an analysis of the revolutionary experiences of India, China, and southeast Asia in recent decades.

2421. History of Africa to 1850/(3).F.

A survey of pre-colonial Africa, examining such topics as geographical influences, neolithic development, structures of belief, ancient North Africa, Islamic influence, trade, African kingdoms and stateless societies, Bantu and other migrations, the slave trade, and early nineteenth-century changes in several parts of Africa.

2422. History of Africa since 1850/(3).S.

A survey which examines such topics as tradition and change in African cultures, the European partition and the African response, colonial systems, the Pan-African movement, the road to independence, and contemporary issues confronting independent Africa.

2500. Independent Study/(1-3).F;S.**2599. History: Scope and Method/(3).F;S.**

Introduction to the nature, meaning and method of history, and to periodical literature, microforms, bibliographies, indexes, and other research tools. Required of all history and social science majors.

2601. Survey of British History to 1715/(3).F.

An introductory survey of British history from the Celtic world through the eighteenth century. The course is concerned with Roman and Anglo-

Saxon England, the Norman conquest and its subsequent building of a new state, and the Tudor-Stuart era with its political and scientific revolutions, the founding of a colonial empire and the classical age of the constitution.

2602. Survey of British History since 1688/(3).S.

Introductory survey of British history from the Glorious Revolution of 1688 to the present. The course is concerned with political, social, economic, and intellectual developments through the decline of the empire.

3122. Ancient Greece/(3).F.

A survey of ancient Greek society, culture and learning from the dawn of its beginnings to the achievement of Alexander. Alternate years with HIS 3124.

3124. Ancient Rome/(3).F.

A study of Roman historical, religious, and cultural practices covering the development and decline of the Republic, and the establishment and autocratic character of the Empire. Alternate years with HIS 3122.

3126. The Middle Ages/(3).F.

An examination of selected topics in the development of medieval civilization including such themes as the shape of feudal society, the age of Gregorian reform, the flowering of the 12th century, the 13th century synthesis, and crisis and transition in the 14th century.

3128. Renaissance and Reformation/(3).F.

The meaning of the Renaissance is investigated in terms of humanism and the arts in the fifteenth and sixteenth centuries; the emergence of the Lutheran and Calvinist movements is then studied against this background.

3130. Early Modern Europe, 1600-1815/(3).F.

This course will focus on the growth of royal and republican governments, the formulation of scientific methodology, the flowering of Baroque and Enlightenment cultures, the major wars and revolutions and the Napoleonic era and its impact.

3132. Nineteenth Century Europe/(3).F.

A survey of Europe, 1815-1914, which examines such themes as romanticism, the industrial revolution, socialism and Marxism, national unification movements, European expansion, the origins of World War I, and major cultural and intellectual developments.

3134. Twentieth Century Europe/(3).S.

A study of contemporary Europe which examines the impact of total war upon society, modern totalitarian movements such as Fascism and Nazism, European socialism and the Cold War, peace movements and peacemaking, the emergence of a European community, and cultural and social trends, all of which shape a modern perspective.

3222. Colonial and Revolutionary America/(3).F.

An examination of the formation of American values and institutions through the interaction of European traditions and the American environment; social mobility, economic opportunity, and political democracy; the role of religion; Indian relations; slavery; the causes and consequences of the American Revolution; the Articles of Confederation; the Constitution.

3224. Jeffersonian and Jacksonian America/(3).S.

A study of the United States from 1789 to 1845. Topics include the political, social, economic, and ideological divisions of the 1790's; the triumph of the Jeffersonian party; the War of 1812 and the rise of American nationalism; the meaning of Jacksonian democracy; slavery and race relations; Indian removal; religion and reform; urbanization; the westward movement.

3226. Civil War and Reconstruction/(3).F.

A study of the era of national transformation, with emphasis on the sectional conflict and causes of the Civil War, its political and military conduct, its international impact, the abolition of slavery, and the principal political, social and economic aspects of its Reconstruction aftermath.

3228. The Gilded Age and Progressive Era/(3).F.

An analysis of the responses of the American people to the rise of the urban-industrial nation. Problems associated with the growth of the city, capital-labor confrontations, social mobility, black-white relations, reform movements, cultural and intellectual affairs, American imperialism, and representative biography are examined.

3230. Recent United States History/(3).S.

A study of American society, politics, and institutions in the period since 1920.

3500. Independent Study/(1-3).F;S.**3520. Instructional Assistance/(1).F;S;SS.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.**3720. History of the South/(3).F.**

An examination of the development of America's major regional sub-culture; a study of significant trends in the social intellectual, economic, and political evolution of the region from the seventeenth century to the present. Alternate years with HIS 3724.

3724. History of the American West/(3).F.

A study of the colonial frontiers, the westward movement, the settlement and development of western America. Alternate years with HIS 3720.

3726. History of the Appalachian Region/(3).S.

A survey of the history of the Appalachian region from the period of exploration and settlement to the present.

3728. History of North Carolina/(3).F.

This course will examine the major social, economic, and political factors in the development of North Carolina from its settlement to the present. Consideration will be given to the relationship of the State to the Southern region and the nation.

3820. United States Foreign Policy/(3).F.

Major episodes in the history of United States foreign policy during the twentieth century are explored, with special consideration being given to the ideas, ideals, domestic and international conditions, and personalities that have played important roles in determining relations with the rest of the world.

3824. American Urban History/(3).S.

A study of the process of urbanization in America from colonial times to the present, with attention to the causes and nature of urban expansion, institutional development, class structure and mobility, problems of the city, reform, the image of the city in popular thought, and the impact of urbanization on national life.

3922. The Western Intellectual Tradition/(3).S.

Studies in western intellectual history which examine the interaction of historically important ideas and their social milieu, with emphasis on selected individuals and concepts that have shaped and exemplified western thought.

*Senior/Graduate Courses***4550. Tsarist Russia/(3).F.**

A survey of imperial Russia from the 15th Century to 1917. Alternate years with HIS 4552.

4552. Soviet Union since 1917/(3).F.

The Russian Revolution and the Communist state since 1917. Alternate years with HIS 4550.

4554. Modern China/(3).S.

Traces the course of man's longest and largest continuous government and the development of Chinese culture and nationalism which has culminated in the founding of the People's Republic of China, a nation that constitutes one-fourth of the human race. Alternate years with HIS 4558.

4558. History of the Islamic Middle East/(3).S.

A survey of the development and expansion of a distinctive Islamic civilization from the time of Muhammad to the present. The course treats the development of the Arab empire, the Turkic/Mongol invasions, the Ottoman and Safavid empires, and the establishing of the state of Israel, concluding with an investigation of current affairs in the Middle East. Emphasis is placed on social and cultural history, investigated from the point of view of the creators and transmitters of the civilization. Alternate years with HIS 4554.

4564. History of Canada/(3).S.

A survey of Canadian history since 1760 which stresses understanding of a unique Canadian identity by emphasizing Canada's evolution into an independent state, its bi-cultural and bi-lingual nature, its federal-provincial structure, its relationship to the United States and the British Empire-Commonwealth, its role in the modern era of super-powers, and selected aspects of its cultural

and economic development. May be counted as American history. Alternate years with HIS 4566.

4566. History of Mexico/(3).S.

Traces the evolution of Mexican society from pre-Columbian times to the present. Topics include the Maya and Aztec civilizations; the Spanish colonial heritage; the nation's struggle for independence; the tumultuous Mexican Revolution; and problems of economic development in the twentieth century. Alternate years with HIS 4564.

4578. Introduction to Applied History/(3).F.

An introduction to the techniques and skills employed by historians and other professionals working in historical agencies, museums, restorations, and the Park Service. Topics considered include historical archeology, family and community history, material culture, architecture, preservation techniques, site interpretation and administration, and historic district planning and management.

4900. Internship: Experiential Learning in Public and Applied History/(3-12).F;S;SS.

An on-the-job work experience individually tailored to the students' career orientation. Students may be required to reside off-campus for periods of from six weeks to a full semester. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

APPALACHIAN STUDIES**3500. Independent Study/(1-3).F;S;SS.****3530. Selected Topics/(1-3).On demand.**

An opportunity to study a special topic or combination of topics not otherwise provided for in the Appalachian Studies curriculum. May be repeated for credit when content does not duplicate.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Mathematical Sciences (MAT)

H. William Paul, Chairperson

Through its faculty and curriculum the Department of Mathematical Sciences provides undergraduate and graduate programs of study which are designed to complement other areas of study in the University and to prepare students for careers in business, industry, and government, as well as in teaching at the elementary; secondary; and community, junior and technical college levels.

The Bachelor of Science degrees in Mathematics offer a flexible curriculum to meet the professional objectives of the individual. By combining a strong background in the mathematical sciences with appropriately chosen study in related disciplines, the programs allow the student, with professional guidance, to prepare for desired career objectives.

Typical examples include: computer science combined with business, accounting, and data processing; probability and statistics combined with courses in business and economics related to actuarial science; applied mathematics combined with physical or natural science; statistics combined with social science; applied mathematics and statistics combined with economics.

The department has Bachelor of Science Advisory Committees to review and approve individual programs of study, and each student is assigned an advisor. Degree candidates should seek approval of their program of study as early as possible in their career, but no later than three semesters before intending to graduate. For additional information, contact the chairperson of the Department of Mathematical Sciences.

Course requirements for the Bachelor of Science degrees (without teacher certification) in the Department of Mathematical Sciences require an approved program of study and must include at least 65 semester hours but no more than 80, with a minimum of 34 hours in the Department of Mathematical Sciences (at least 5 from 4000 level). Three degrees are available:

B.S. Statistics

1. MAT 1110, 1120, 2130, 2240.
2. STT 3820, 3840, 4810, 4830, 4850, 4860 plus eight hours of approved electives** in mathematical sciences plus five hours of related* work.
3. A career support emphasis of at least 18 semester hours from disciplines outside mathematical sciences.**

B.S. Mathematics

1. MAT 1110, 1120, 2130, 2240.

2. Completion of one of the concentrations
 - a. Mathematics (General) - MAT 3110, 3210 plus 13 hours of electives** in mathematical sciences (at least 5 at 4000 level) plus 10 hours of related* coursework.
OR
 - b. Applied Mathematics - MAT 3130, 3310, 4310, CS 1440, 2440, STT 4850 plus 6 hours of electives** in mathematical sciences with 6 hours of related* coursework.
3. A career support emphasis of at least 18 semester hours from disciplines outside mathematical sciences.**

B.S. Computer Science

1. MAT 1100, 1110, 1120, 2240, and STT 4850.
2. CS 1440, 2440, 2450, 3460, 3481, 3482, 3490, plus one of the course groups
 - a) CS 4510, 4520; b) MAT 3130, 3310, 4310, plus two hours at 2000 level or above in mathematical sciences; c) DS 3670, 3680, or DS 3650, 3690, plus five hours at 2000 level or above with at least two hours at 4000 level in mathematical sciences; (d) Any group chosen by the student and approved by the advisory committee which includes at least 9 hours of computer courses above the 2400 level with at least 3 hours of computer science courses numbered 4000 or higher.
3. A career support emphasis of at least 18 semester hours from disciplines outside mathematical sciences.**

Note: Transfer students must have completed the equivalent of CS 1440 to enter the computer science option at the sophomore level. The equivalent of CS 2440 and CS 2450 are needed to enter this option at the junior level.

**Related coursework may be outside mathematical sciences and must be approved by advisory committee.*

***Must be approved by advisory committee.*

A major leading to the Bachelor of Arts in Mathematics consists of 34 semester hours in the Department of Mathematical Sciences including 1110, 1120, 2130, 2240, 3110, 3210 plus 14 hours of electives in mathematical sciences numbered 2000 or above (at least five hours from 4000 level).

The Bachelor of Science degree in Mathematics, Secondary Education and teacher certification consists of 34 hours in the Department of Mathematical Sciences with at least five hours from 4000 level. A Teacher Certification Advisory Committee reviews and approves individual programs of study and each student is assigned an advisor. Students should submit a proposed program of study as early as possible, preferably by the end of the sophomore year. (For the requirements in teacher education, see the Department of Curriculum and Instruction.) All programs of study must include the 15 hour nucleus in mathematics of MAT 1110, 1120, 2130, and 2240. Since certification requires competencies in the areas of computer use, algebra, geometry, and statistics, a

typical program of study might include CS 1440, MAT 3110, 3210, 3610, 3920, and STT 4850. PHY 1150 and 1151 are also required.

The Department of Mathematical Sciences encourages multiple majors. To obtain a second major within the department there must be a significant difference in the program content for that major compared to the first major. Approval by all involved departmental advisory committees is required.

Three minors are offered within the Department of Mathematical Sciences. A minor in computer science consists of 12 hours in computer science, including CS 2440 but excluding CS 3470, a statistics minor consists of 12 hours in statistics, and a minor in mathematics consists of 1110 or 1030 plus eight hours of electives in mathematical sciences which may include 1120 or any course numbered 2000 or above.

The Department of Mathematical Sciences offers a Master of Arts degree in Mathematics Education with a concentration in Secondary School Teaching, and a general Master of Arts degree in mathematics. Prospective community, junior or technical college teachers may be served by either of these. Persons interested in any of these degree programs are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Mathematics, Computer Science, and Statistics

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

MATHEMATICS

0010. Developmental Mathematics/(1).F;S;SS.

This course is intended for those persons with algebra deficiencies who are thus not prepared to enter MAT 1010 or MAT 1020. It is mandatory for students whose scores on the Mathematics Placement Test indicate deficiency. The course content is elementary algebra. Study skills are emphasized. Class meets five hours per week including laboratory and the format allows for self-pacing and individualization.

1010. Introduction to Mathematics/(4).F;S;SS.

Designed to develop appreciation for mathematical concepts from different viewpoints and aid in the development of mathematical literacy of a citizen of modern society. Topics covered may include systems of linear equations,

inequalities, computer programming, probability and statistics, consumer mathematics and graph theory. Word problems are stressed. Not open to students with credit for MAT 1110. Prerequisite: Must pass placement test or MAT 0010.

1020. Algebra and Trigonometry/(4).F;S;SS.

An integrated study of algebra and trigonometry including such topics as the real and complex number systems, algebraic relations and functions, trigonometric functions, and elementary theory of equations. (For the student who wishes to strengthen his background in the computational aspects of the mathematics he began in high school.) Not open to students who have credit for MAT 1110. Prerequisite: MAT 0010 or placement.

1025. Algebra and Elementary Functions/(4).F;S;SS.

An overview of algebraic concepts and a thorough treatment of functions such as rational, logarithmic, exponential, and trigonometric. Included will be a rigorous treatment of analytic geometry. Recommended for students with less than four units of high school mathematics who plan to take MAT 1110. Student cannot receive credit for both 1020 and 1025. Prerequisite: must pass placement test or MAT 0010.

1030. Calculus With Business Applications/(4).F;S;SS.

An introduction to the concepts of differentiation and integration with particular emphasis upon their applications to solving problems that arise in business and economics. This course is designed primarily for business and economics majors and is not open to mathematics majors or students with credit for MAT 1110. Prerequisite: MAT 1020 or MAT 1025 or equivalent.

1100. Discrete Mathematics/(3).F;S;SS.

A study of discrete mathematics with special emphasis on topics applicable to computer science. Concepts covered in the course include number systems, models, combinatorics, graphs, recursion, networks, and analysis of algorithms. Prerequisite: Must pass placement test or MAT 0010.

1110. Calculus With Analytic Geometry I/(4).F;S;SS.

A study of limits, continuity, differentiation, applications of the derivative, the differential, and antiderivatives. Prerequisite: MAT 1020 or MAT 1025 or equivalent.

1120. Calculus With Analytic Geometry II/(4).F;S;SS.

A study of the definite integral, area, volume, arc length, logarithmic and exponential functions, hyperbolic functions, and methods of integration. Prerequisite: MAT 1110.

1910. Mathematics for Elementary School Teachers/(2).F;S;SS.

A course designed for the future elementary school teacher. Among other topics this course will include a development of the real number system, Euclidean geometry, number theory, mathematical systems, probability, and problem solving.

2130. Calculus With Analytic Geometry III/(4).F;S.

A study of polar coordinates, the conic sections, indeterminate forms, improper integrals, Taylor's

formula, infinite series, partial derivatives and multiple integration. Prerequisite: MAT 1120.

2240. Introduction to Linear Algebra/(3).F;S.

A study of vectors, matrices and linear transformations, principally in two and three dimensions, including treatments of systems of linear equations and determinants. Prerequisite: MAT 1120 or permission of instructor.

2500. Independent Study/(1-3).F;S;SS.**3010. History of Mathematics/(2).On Demand.**

A study of the development of mathematical thought, mathematics and culture, and the persons who have made significant contributions to these.

3110. Introduction to Modern Algebra/(3).F;S;SS.

Topics covered include sets, functions, equivalence relations, groups, rings, integral domains, fields and homomorphisms of these structures. Prerequisite: MAT 2240 or permission of the instructor.

3130. Introduction to Differential Equations/(3).S.

A study of methods of solution of differential equations including classical methods for ordinary differential equations, matrix methods, series, and Laplace transform techniques. Partial differential equations and Fourier series are briefly introduced. Prerequisite: MAT 2130, with MAT 2240 recommended.

3210. Intermediate Analysis/(3).F;S;SS.

A treatment of the calculus of real valued functions of real variables including limits, differentiation and Riemann integral. Prerequisite: MAT 3110 or permission of instructor.

3250. A Study of the Integers/(2).S.

A study of the integers beginning with the Peano postulates and including the Fundamental Theorem of Arithmetic, Diophantine equations, congruences, Fermat's and Wilson's theorems, perfect numbers, Euler's theorem. Fermat's conjecture and the Goldbach conjecture. Emphasis will be on the historical as well as the theoretical development of the subject. Prerequisite: MAT 3110 or permission of the instructor.

3310. Applications of Mathematics/(2).F.

A survey of problems in the physical, engineering, biological and management sciences in which undergraduate level mathematics is applied in the

formulation and solution. The course offers an opportunity for the student to bring all of his mathematical background to bear on some specific real-world problems. Prerequisite: MAT 2130 or permission of instructor.

3500. Independent Study/(1-3).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.

3610. Introduction to Geometry/(3).F;S;SS.

A study of the development of Euclidean geometry including both the synthetic and the metric approach. Topics to be considered include parallelism and similarity, measurements, ruler and compass constructions, and consideration of at least one non-Euclidean geometry. Prerequisite: MAT 1120.

3910. Mathematics for Elementary Teachers/(4).F;S.

A study of the area of mathematics related to the modern elementary school curriculum. To be included are topics from abstract algebra, geometry, number theory, mathematical logic, trigonometry and an intuitive approach to calculus. Not open to mathematics majors. Prerequisite: MAT 1910.

3915. Computer Languages for Learning Mathematics/(2).F;S;SS.

An introduction to computer languages such as LOGO which are especially designed to create environment for the learning of mathematics and are based on learning theory. The course will emphasize the learning theory foundations of the language as well as programming and teaching/learning applications. Prerequisite: MAT 1910 or permission of instructor.

3920. Elementary Mathematics for Teachers/(4).S.

This course is an extension of 3910 covering concepts of the elementary and junior high school curriculum. It also deals with remediation efforts involving these concepts when encountered at the 10-12 grade levels. Open to mathematics majors seeking secondary certification. Prerequisite: MAT 1910 or permission of instructor.

4010. Undergraduate Seminar/(1-3).On Demand.

(Permission to register must be given by the department chairman.)

4110. Introduction to Real Variables I/(3).F.

A rigorous treatment of the concepts of sequences, limits, continuity, and uniform continuity. Prerequisite: MAT 3110 or 3210.

4210. Abstract Algebra/(3).F.

A study of group theory including quotient groups, the fundamental theorem of finite Abelian groups, and the Sylow theorems. Includes an introduction to rings with emphasis on Euclidean rings and other principal ideal domains. Prerequisite: MAT 3110 or permission of the instructor.

4310. Introduction to Numerical Methods/(3).S.

The development and application of numerical methods for the solution of transcendental equations, systems of linear equations, differential equations, integrations, and related problems utilizing the computer. Prerequisite: MAT 2130 and programming experience.

Senior/Graduate Courses

4560. Methods of Applied Mathematics/(3). F. Odd numbered years.

Topics from complex variables, vector field theory, Fourier and Laplace Transforms, and integral equations. Prerequisites: MAT 2130 and 3130.

4570. Advanced Differential Equations/(3).F. Even numbered years.

Topics include ordinary differential equations, Green's functions, partial differential equations and boundary value problems, calculus of variations, and numerical solutions of partial differential equations. Prerequisites: MAT 2130 and 3130.

4610. Foundations of Geometry/(2).S;SS.

A treatment of projective geometry including both the synthetic and the analytic approach. Also to be considered is a study of the relation to Euclidean, affine and hyperbolic geometrics to projective geometry. Prerequisites: MAT 2240 and 3610.

4710. Introduction to Topology/(3).F.

A study of the basic concepts of general topological space including such topics as compactness, connectedness, project spaces, metric spaces, and continuous functions. Prerequisite: MAT 3110.

4910. Geometry for Elementary School Teachers/(3).S;SS.

An informal treatment of aspects of geometry which are relevant to the elementary school curriculum. The topics considered include congruence, measure of segments and angles constructions, parallels and parallelograms, similarity, space geometry, areas and volumes, and measurements related to circles. Not open to mathematics majors.

4930. Foundations of Arithmetic/(3).S;SS.

A development of number systems through a postulational treatment of the properties of integers, rational numbers, and real numbers. Included is a study of logic, probability, and elementary statistics. A senior-graduate course for elementary teachers concentrating in mathematics. Not open to mathematics majors. Prerequisite MAT 3910 or 3920 or permission of instructor.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

COMPUTER SCIENCE

1400. FORTRAN Programming/(3).F;S;SS.

A first course in FORTRAN programming intended for any student having a need for computer assistance. The course uses flowcharts and FORTRAN IV language for a set of programs introducing commonly encountered applications.

1410. Introduction to Computing/(2).F;S;SS.

This course includes an introduction to BASIC language, use of the software editor on the local mainframe computer and word processing on a microprocessor, and packages on both types of computers. Not intended for computer science majors. Prerequisite: Must pass placement test or MAT 0010.

1430. COBOL Programming/(3).F;S;SS.

A first course in COBOL programming with primary objective a basic competence in writing and running programs in standard COBOL for a variety of applications.

1440. Programming Fundamentals/(3).F;S;SS.

This course will provide an introduction to programming in a block structured language, such as PASCAL. It is intended to be the initial course for computer science majors and will be a prerequisite for the next sequence of courses. Prerequisite: Must pass placement test or MAT 0010.

2440. Algorithms and Programming/(4).F.

A course in various programming concepts, including compiler characteristics and operating systems as needed, but with emphasis on algorithms using flowcharts. Original algorithms are developed, programmed, and documented. Use is made of subroutines, disc files, arrays, and the various programming paraphernalia during the course. Prerequisites: CS 1440 and MAT 1100.

2450. Assembly Language and Machine Operation/(4).S.

This course includes data representation in the computer, computer logic, and a brief look at circuits, hexadecimal and binary numerals and arithmetic with emphasis on the study and practice of assembly language programming. Prerequisite: CS 2440.

2460. Files: Structure and Processing/(3).S.

A study of important types of file organization together with problems involved in their maintenance and use. Topics in addressing techniques as well as sorting and searching are included. Prerequisites: CS 1430 and CS 1410 or 1440.

3440. Microcomputer Systems/(3).F.

A hands-on study of the software-hardware relationships used to create computer systems, with emphasis on readily-available microprocessors and operating systems. The student will investigate systems of increasing complexity, from minimal configurations for running short machine-language programs through multi-user disk operating systems. Prerequisites: CS 2450 and PHY 3700 or permission of the instructor.

3441. Microprocessor Applications/(3).S.

The purpose of this course is to develop software to apply microprocessors to a variety of useful tasks utilizing families of support chips devices. Students will write device- and task-level software to control available hardware. Sample individual projects may involve music or voice synthesis, communication, process control or graphics. prerequisite: CS 3440.

3460. Data Structures/(3).F.

The use and implementation of various information structures is studied, including arrays, records, stacks, queues, linked lists, and trees. Prerequisite: CS 2450.

3463. Simulation/(3).S.

Digital simulation of discrete systems. Simulation design. Statistical analysis and interpretation of simulation output. Simulation of computer and physical systems. Simulation languages. Prerequisites: CS 3460 and either STT 3810 or STT 4850.

3465. Computer Graphics/(3).S.

Basic concepts of computer graphics. Hardware and software system organization. World and device spaces. Graphics programming languages and devices. Prerequisite: CS 3460.

3467. Software Engineering/(3).S.

A course in the methodical design, implementation, and documentation of large software system. Topics include problem definition; pseudo-code and flowcharts; structured, top-down design; modularity and decomposition; successive refinement; debugging tools; internal and external documentation. Students will participate in the realization of both group and individual software systems. Prerequisite: CS 3460.

3470. Current Computer Use/(1-6). On Demand.

Work experience which contributes to the student's background in the computing field, such as working as a programmer for a faculty member engaged in research or working in a computer installation for a period of time. The responsibility for arranging such work rests with the student with final approval given by the department chairperson. Graded on an S/U basis.

3475. Data Systems I/(3).F.

An introduction to data description, including languages, database management, and factors affecting performance of database management software. Vendor supplied software will be employed to manipulate data and allow the student to become familiar with at least one data system. Prerequisite: CS 2460.

3481. Computer Systems I/(3).F.

The hardware and software components of computer systems are studied. Included are processors, memories, input/output devices, interrupts, microprogramming, suitable description languages, and the elements and structures of multiprogrammed operating systems. Significant projects are undertaken by each student. Lecture two hours, laboratory three hours. Prerequisite: CS 2450. Corequisite: CS 3460.

3482. Computer Systems II/(3).S.

Continuation of CS 3481. Lecture two hours, laboratory three hours. Prerequisites: CS 3481 3460. Corequisites: CS 3490, STT 4850.

3490. Programming Languages/(3).S.

Comparison of user and implementation aspects of several programming languages, e.g., ALGOL 60, SNOBOL, lists processing languages and extensible languages. The concept of metalanguage is included. Prerequisite: CS 3460.

3500. Independent Study in Computer Science/(1-3).On Demand.

This course helps the student advance through study under the direction of a faculty member, in the area(s) of special interest in computer science. It may be taken only after a minor in computer science is completed.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.

4420. Real-time Systems/(4).F.

Real-time hardware and software. Data acquisition and data reduction. Real-time algorithms and data structures. Advanced programming topics including buffering, input-output, and interrupts. Lecture three hours, laboratory three hours. Prerequisite: CS 3482.

Senior/Graduate Courses

4510. Programming Language Translation/(4).F.

Techniques for the translation of programming languages into machine or assembly language. Each student will participate in the writing of a compiler. Prerequisite: CS 3482, CS 3490.

4520. Operating Systems/(4).S.

Study in depth of the various parts of operating systems including schedulers, memory management, interrupt handling and time sharing. Lecture three hours, laboratory three hours. Prerequisite: CS 3482, STT 3810 or STT 4850.

4540. Artificial Intelligence/(3).S.

Includes artificial intelligence goals; problem solving; representations, manipulations, and storage of knowledge; knowledge representation in contrast to natural language and mathematical notation; heuristic programming; significant techniques such as expert systems. Prerequisite: CS 3460.

4550. Introduction to Theoretical Computer Science/(3).F.

A first treatment of theoretical aspects of computer science, including formal definition of the notion of algorithm, considerations of computational complexity, automata, formal grammars, and the theory of effective computability. The course presents a diverse sampling rather than attempting an in-depth exposition of a single topic. Prerequisite: CS 2450.

4575. Data Systems II/(3).S.

This is a laboratory course in which the student is involved in database design along with design and implementation of data system software effecting desired interplay between the user, the database, and the operating system. Lecture, two hours; laboratory two hours. Prerequisite: CS 3475 Data Systems I.

STATISTICS

3500. Independent Study/(1-4).F;S;SS.**3520. Instructional Assistance/(1).F;S;SS.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.**3810. Statistical Methods I/(3).F;S;SS.**

A study of statistical methodology including organization and presentation of data, probability, statistical distributions, confidence intervals and hypothesis testing. Emphasis will be on computational procedures rather than theoretical development. Prerequisite: MAT 1020 or the equivalent.

3820. Statistical Methods II/(3).S;SS.

A continuation of Statistics 3810. Topics covered will include regression, analysis of variance, analysis of covariance and experimental design. Emphasis will be on computational procedures rather than theoretical development. Prerequisite: STT 3810 or 4860.

3840. Elementary Probability and Survey Sampling/(3).F.

The course begins with an introduction to discrete probabilities and related applications. In particular, the application of probability to sampling is studied in detail. The remainder of the course is devoted to the theory of sampling and sampling techniques. Applications are highlighted through examples and illustrated problems. Prerequisite: STT 3810 or STT 4860.

*Senior/Graduate Courses***4810. Non-Parametric Methods/(3).S.**

A study of non-parametric methods in hypothesis testing. Emphasis will be on applications rather than theoretical development. Prerequisite: STT 3810 and consent of instructor or 4860.

4830. Linear Statistical Models/(4).F.On Demand.

A study of regression analysis, analysis of variance, analysis of covariance, and associated tests of hypothesis via least squares theory. Canned computer programs will be utilized and interpreted in applications of the above topics. Prerequisites: MAT 2240 and STT 3820.

4850. Probability and Mathematical Statistics I/(3).F;S;SS.

An introduction to axiomatic probability theory. Topics include a study of sample spaces, probability theory, random variables and their properties, and the fundamental limit theorems. Prerequisite: MAT 1120.

4860. Probability and Mathematical Statistics II/(3).S.

An introduction to the mathematical principles of statistical inference. Topics include a study of sampling theory, point and interval estimation, and hypothesis testing. Prerequisite: STT 4850.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Philosophy and Religion (P&R)

Alan J. Hauser, Chairperson

The objectives of the Philosophy and Religion Department are to acquaint students with the religious and philosophical history of humankind, giving special attention to those aspects of tradition having most to do with the shaping of the modern mind; to promote critical examination of and reflective discourse about philosophical and religious issues; and to promote a desire for advancing the skills and frontiers of knowledge in philosophy and religion.

In keeping with these objectives, an interdisciplinary major and minor in philosophy and religion are offered. Within the framework of these programs one may also choose to elect an emphasis in philosophy or religion. For participants in the graduate program a limited amount of graduate work is available, including an eight hour graduate minor. The graduate minor is designed for students on an individual basis. For further information contact the department chairperson.

A major in philosophy and religion leading to the Bachelor of Arts degree consists of 36 semester hours, 27 hours of which must be above the freshman level. Students must participate in the following core: 1000: Introduction to Philosophy; 1020: Religions of the World; either 1040: Critical Thinking Skills or 1100: Logic I; one philosophy course at the 2000 level; one religion course at the 2000 level; one philosophy course at the 3000 level or above; one religion course at the 3000 level or above; two seminars (one the colloquium).

A minor in philosophy and religion consists of 18 semester hours, nine of which must be above the freshman level and must include a seminar or the seminar colloquium.

A student majoring or minoring in the department must obtain credit for one course in literature outside the department. If a student has satisfied the general education requirement of one course in literature by taking one or more courses in religion counting towards this requirement, he or she will be allowed to count them toward the major, but must obtain additional credit in literature equal to that counted toward the major.

To earn the Bachelor of Arts degree the student must complete six semester hours of the second year of a foreign language or higher. Students planning to pursue graduate studies in philosophy or religion may find it helpful to pursue a second foreign language. Students should consult with their advisor before making decisions regarding their foreign language study.

The Department of Philosophy and Religion offers an Honors program comprised of courses at the introductory, intermediate, and advanced levels. Special Honors sections will be designated from the following courses: 1000, 1020, 1100, 2010, 2020. 4510, Seniors Honors Thesis, is offered exclusively as an Honors course. Invitation to enroll-

ment in Honors courses may be extended to any qualified students. However, to graduate with "Honors in Philosophy and Religion" a student must be a major who has completed at least 9 hours of work in departmental Honors courses with a combined G.P.A. of 3.4 or above in those courses. Three of the hours taken must be the course 4510, Senior Honors Thesis. For additional details regarding Honors in Philosophy and Religion contact the Director of Departmental Honors, Frans van der Bogert.

Courses of Instruction in Philosophy and Religion

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1000. Introduction to Philosophy/(3).F;S;SS.

A general introduction to the basic patterns and methods of philosophy as presented through representative thinkers.

1020. Religions of the World/(3).F;S;SS.

An introduction to the major living religions of the world.

1040. Critical Thinking Skills/(3).F;S.

An introduction to the art of critical thinking, including identifying problems, locating assumptions and analyzing their impact on the products of thought, assessing causal claims, learning problem solving strategies, and examining creativity.

1100. Logic I/(3).F;S.

An introduction to deductive and inductive reasoning, fallacy identification, and the careful use of language. A study of both traditional Aristotelian Logic and recent logic systems will be included.

2000. Ethics/(3).F.

An examination of the application of ethical theories to the identification, clarification, and criticism of values, using a case studies approach.

2010. Old Testament Literature/(3).F;S;SS.

An analysis of the Old Testament literature as the product of the life of the Hebrew people. Selected Old Testament documents will be studied in terms of their literary structure, historical context and religious perspective.

2012. Humanities: Music, Art, and Ideas I/(3).F.

A course which concentrates on the interplay of art, music, philosophy and religion in the ancient

through medieval cultures and their influences as manifested in other centuries.

2013. Humanities: Music, Art, and Ideas II/(3).S.

A course which concentrates on the interplay of art, music, philosophy and religion in contemporary culture.

2020. New Testament Literature/(3).F;S;SS.

An analysis of New Testament literature as the product of the life of the early Christian Church. Selected New Testament documents will be studied in terms of their literary structure, audience, historical context, religious perspective, and their relation to the broader Christian community and Western culture.

2025. Christianity I/(3).F.

An introduction to Christianity from the early Church through the middle ages, treating such movements as martyrdom and monasticism, the Church Fathers and their response to heresy, and the growth and decline of papal power.

2026. Christianity II/(3).S.

An introduction to modern-day developments in Christianity stemming from the break-up between the Eastern and Western Churches, the Protestant Reformation, the effect of the Enlightenment and science, and other contemporary movements such as ecumenism, missions, and secularism.

2030. Islam/(3).S.

A selective survey of the religion and its expression in Islamic civilization and literature from the time of the revelation of the Quran to the prophet Muhammad to the Islamic revival of the current oil age.

2040. Religions of Asia/(3).F;S.

An analysis of the Hindu, Buddhist, Confucianist, and Taoist literatures as seen in the life of the Asian people. Selected literatures will be studied in terms of literary, philosophical and religious perspectives.

2050. Religion in America/(3).F.

An examination of religious beliefs and practice in the United States.

2100. Logic II/(3).S.

A study of some major systems of formal logic, such as Boolean Algebra, Quantification Theory, Modal and Inductive Logics. Discussions of the theory of Logic, the limits of the axiomatic method, and the relationship between Logic, computer machine languages and programming languages will be included.

2200. Philosophy of Art and Beauty/(3).F.

A study of the nature and value of beauty, uniqueness, and creativity in art, nature and human affairs.

2500 Independent Study/(1-4).F;S;SS.

3000. Ancient Philosophy/(3).F.

An introduction to philosophy through the study of the pre-Socratic Philosophers and of Plato and Aristotle. Prerequisite: one course in philosophy or consent of the instructor.

3010. Prophecy in the Old Testament/(3).S. (Eff. Spring, 1988)

A study of the prophetic movement and its literature in the Old Testament. Prerequisite: 2010 or permission of the instructor.

3020. The Life and Letters of Paul/(3).F. (Eff. Fall, 1987)

A study of Paul's life and Christian experience as reflected in his letters. Prerequisite: 2020 or permission of the instructor.

3200. Modern Philosophy/(3).S.

A study of views of eminent philosophers of the seventeenth and eighteenth centuries, including Descartes, Hume, and Kant. Prerequisite: one course in philosophy or consent of the instructor.

3300. Twentieth Century Philosophy/(3).S.

An examination of major continental European and Anglo-American developments in philosophy during the twentieth century. Such major figures as Russell, Wittgenstein, Moore, Ayer, Ryle and Austin in the analytic tradition, and Heidegger, Husserl, Sartre, and Merleau-Ponty in the existential tradition will be examined.

3410. Religious Awareness/(3).S.

An existential approach to spirituality based on the methods and insights of the religious traditions of East and West. Each person will have an opportunity for inquiry into the framework of a religious tradition of his or her choice.

3420. African Religions/(3).F.

An examination of Folk religion, Christianity and Islam in Africa. Particular attention will be given to symbol, ritual, belief and community within the African religions.

3430. Judaism/(3).F.

An examination of the history, literature, and faith of post-exilic Judaism, with concentration on selected topics and periods.

3440. Zen Buddhism/(3).S.

An exploration of the impact of Zen Buddhism upon Western cultures through materials drawn from Zen literatures, Western writings about Zen, and paintings.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

3600. Philosophy of Science/(3).S.

An investigation of the foundations, structure, actual attainments, and ideals of the sciences. Prerequisite: one course in science or science education or philosophy or consent of instructor.

3700. Social Issues and Ethics/(3).S.

A study of selected moral problems as they arise in public policy (such as: abortion, nuclear deterrence, and reverse discrimination) or various professions (such as: health care, law, business, and teaching, and the interrelationship between public policy and professional ethics.

4000. Nature of Knowledge/(3).F.

A study of the traditional problems of the origin, nature, and limitations of knowledge. What do we know and how do we know it? Prerequisite: one course in philosophy or consent of the instructor.

Senior/Graduate Courses

4510. Senior Honors Thesis/(3).On Demand. Independent Study and research. Honors thesis directed by a member of the Department of Philosophy and Religion and a member of an affiliated department appropriate to the topic selected by the student. Prerequisite: completion of 6 hours of Honors work below the 4000 level.

4549. Seminar/(3).F;S.

An intensive study of special problems, topics, or issues related to the study of philosophy and/or

religion. The subject matter of this course will vary and barring duplication of subject matter a student may repeat the course for credit. Prerequisite: one course in philosophy and/or religion or consent of instructor.

4900. Internship/(3-6). On Demand. Graded on an S/U basis.

For graduate courses (5000 and above) refer to the **Graduate Bulletin**.

Department of Physics and Astronomy (PHY)

Karl C. Mamola, Chairperson

The objectives of the Department of Physics and Astronomy are:

1. to prepare students for a variety of careers which require a technical background, and
2. to provide service courses at appropriate levels for students in many disciplines.

The versatility of physicists is a result of a basic education which emphasizes fundamental phenomena in nature. Understanding these fundamentals allows a physicist to attack a wide range of problems in many different fields, from energy resources and the environment to transportation and communications.

By taking appropriate physics courses one can simultaneously learn about the physical side of nature in a most general way, acquire useful specific knowledge, and satisfy general education science requirements.

In keeping with these objectives, three undergraduate degrees are offered. Minors are offered for both the undergraduate and the graduate student.

A major in physics leading to the Bachelor of Arts degree consists of a minimum of 36 hours in physics including 1150-1151 or 1103-1104; 2010-2020, 2210, 3010-3020, 4210 and seven to nine hours of physics electives. Also required are CHE 1101-1102 and MAT 1110, 1120, 2130, and 3130.

An undergraduate minor in physics consists of PHY 1103-1104, or 1150-1151 and any eight hours of electives in physics above the 1000 level.

The Bachelor of Science degree in Science Education with a concentration in physics consists of a minimum of 32 hours in physics (including PHY 1103-1104, or 1150-1151, 2010-2020, 2210, 3520, 4210, and nine to eleven hours of physics elec-

tives—PHY 1001, 3210, and 2630 or 3630 being recommended), plus BIO 1101-1102, CHE 1101-1102, and MAT 1110, 1120, 2130, and 3130. IET 2004 is also recommended. For the section describing the Curriculum in Science Education, refer to index. For the requirements in teacher education, see the Department of Curriculum and Instruction.

A major in physics leading to the Bachelor of Science degree (without teacher certification) with a concentration in Applied Physics consists of a minimum of 32 hours in physics including 1150-1151 or 1103-1104; 2010-2020; 2210; 3210; 4210; MAT 1110, 1120, 2130; and at least 18 hours in an emphasis area. A committee consisting of two faculty members from physics and one from each of the other disciplines in the emphasis area must advise each student individually and approve a program of study and any subsequent modifications. Some suggested core emphasis areas are: astrophysics, geo-physics, engineering electronics, radiation safety physics, medical physics, technical management, industrial physics, computational physics, mathematical physics, and technical writing. The technical management emphasis includes all those core courses that are prerequisite to the Master of Business Administration (MBA) degree in the College of Business. (See the Graduate Catalog for details regarding the MBA). Many other combinations for emphasis areas are possible and will be developed in consultation with the departmental chairperson and the faculty advisory committee.

Honors Program in Physics and Astronomy

The department of Physics and Astronomy offers a Senior Honors Research and Thesis Course (PHY 4510) open only to majors in physics and astronomy during their final undergraduate semester and who have an outstanding undergraduate record. A student who wishes to enroll in the Senior Honors Research and Thesis course should contact the department chairperson and make the necessary arrangements during the first semester of his/her senior year.

In order to graduate “with honors in Physics and Astronomy” or “with highest honors in Physics and Astronomy”, a student must successfully complete PHY 4510. Additional information may be obtained from the department chairperson.

A graduate minor in physics consists of 8-12 hours selected from physics offerings numbered 4500 and above.

Courses of Instruction in Physics and Astronomy

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1001. Introductory Astronomy I - The Solar System/(3).F;S.

Topics to be covered include constellations, telescopes, the Sun and Moon, planets, asteroids, comets, the origin of the solar system and the search for extra-terrestrial life. There are also night observations and photography as well as a field trip to ASU's Dark Sky Observatory. Lecture two hours, laboratory two hours.

1002. Introductory Astronomy II - Stars and Galaxies/(3).F;S.

A study of astronomical objects located beyond our solar system. Topics to be covered include the structure and evolution of the stars, pulsars, black holes, gaseous nebulae, star clusters, galaxies, quasars and the structure of evolution of the Universe. Night observations of these types of objects will be made. Lecture two hours, laboratory two hours. Prerequisite: PHY 1001.

1101. Concepts of Physics/(3).F;S;SS.

This course presents a broad view of physics and its interrelations with other subjects. Some ideas of mechanics, heat, light, sound, electricity, magnetism, and quantum physics are surveyed at an introductory level, with energy as the connecting theme. A second semester of physics (1105 or 1106) covers certain of these topics in more depth. Lecture two hours, laboratory two hours.

1103-1104. General Physics/(4-4).F;S.

A study of the basic principles of physics including mechanics, thermodynamics, sound, electricity and magnetism, optics and modern physics. Corequisite for PHY 1103: MAT 1020 or MAT 1025 or equivalent. Lecture three hours, laboratory two hours.

1105. Physics of Sound/(3).F.

Designed for music majors and others interested in music, this course applies the physics of wave behavior to the understanding of musical sounds and instruments, auditoriums, high fidelity sound equipment, electronic sound synthesizers and to the ear and hearing. Lecture two hours, laboratory two hours.

1106. Physics of Light and Color/(3).F;S;SS.

An introductory course intended primarily for students of the fine and applied arts and others interested in optical phenomena. Topics include the perception of light and color, color mixing, polarized light, photography, lasers, and holography. Lecture two hours, laboratory two hours.

1150-1151. Analytical Physics/(5-5).F-S.

An analytical and quantitative treatment of physics at a somewhat more advanced level than the 1103-1104 sequence. Students who should take this sequence include those majoring in mathematics, chemistry, physics, and preengineering, as well as any others whose future work will benefit from practice in problem solving. Topics covered include mechanics, heat, light, sound, electricity, magnetism and quantum phenomena. Corequisite: MAT 1110. Lecture four hours, laboratory three hours.

1700. Personal Computers I/(2).F;S;SS.

Introduction to small computers, their features, their applications and future developments. Programming in elementary BASIC will emphasize graphics and animation. Demonstrations of assorted hardware and software. No prerequisite.

1701. Personal Computers II/(2).F;S;SS.

Intermediate BASIC programming to include the arithmetic and string handling functions of small computers as well as advanced graphics. Demonstrations of assorted hardware and software. Prerequisite: PHY 1700.

2010-2020. Intermediate Physics I-II/(4-4).F;S.

A study of basic formulations and concepts in classical physics, especially mechanics, static and dynamic electricity and magnetism, but also heat, light, sound and modern physics. Calculus, vector methods and computer techniques are used. Intended primarily for students majoring or minoring in physics. Prerequisite: PHY 1104 or 1151 and Mathematics 1120. Lecture four hours.

2210. Intermediate Physics Laboratory/(2).S.

A course designed for physics and astronomy majors emphasizing experimental techniques, measurements, data and error analysis, experiment planning and evaluation, and report writing. Intermediate classical experiments with both oral and written reports. Lecture one hour, laboratory two hours. Corequisite: PHY 2020.

2500. Independent Study/(1-4).F;S;SS.**2630. Analog Circuit Analysis/(3).F.**

DC and AC circuit analysis, discrete passive and active components. Included are diodes, transistors and operational amplifiers. Thevenin's and Norton's theorems. Use of common electronic instrumentation. Lecture two hours, laboratory three hours. Prerequisites: PHY 1104 or 1151, MAT 1120.

2700.* Computer Interfacing/(3).F.

An introduction to the basic principles of computer interfacing and machine language programming. Topics to be covered include analog to digital, digital to analog, voltage to frequency conversion, data transmissions and applications of these topics using departmental microcomputers. Prerequisites: PHY 1700 or 1701 and PHY 1104 or 1151.

*Offered in even numbered years.

3000.* Microcomputer Methods in Physics/(2).F.

A course designed to acquaint the student with the uses of microcomputers in physics calculations. Applications will be selected from the areas of mechanics, electricity and magnetism, thermal physics, optics and modern physics. Prerequisites: PHY 1701 (or equivalent) and MAT 1120; corequisite: PHY 2010.

*Offered in odd numbered years.

3010. Classical Mechanics/(3).F.

A study of classical problems in mechanics. Topics include motion in noninertial reference frames, particle systems and collisions, rigid bodies, and Lagrangian mechanics. Prerequisite: PHY 2010, corequisite: MAT 3130.

3020. Electromagnetic Fields and Waves/(3).S.

A study of electromagnetic theory, including the solution of electrostatics problems using Laplace's equation, fields in dielectric media, magnetic fields of steady and varying currents, and the development and application of Maxwell's equations. Prerequisites: PHY 2020, MAT 3130.

3100*. Astrophysics/(3).S.

A study of the astrophysical process which occur in stars, nebulae and the interstellar medium. Topics to be covered include energy generation and transfer in stars, spectral line formation and stellar structure and evolution. Prerequisites: PHY 1002, PHY 1151, MAT 1120.

*Offered in even numbered years.

3200. Astromechanics/(3).S.**

An introduction to classical and modern techniques in the study of orbiting celestial bodies. Lecture topics will include the solution of the 2-body problem with applications to comet orbits, the restricted 3-body problem, and solutions to the n-body problem. Laboratory sessions will deal primarily with computer simulations of orbits and solutions of orbits from limited data. Prerequisite: PHY 1103 or 1150; MAT 1120; experience in

programming in either BASIC or FORTRAN. Lecture two hours, laboratory two hours.

**Offered in odd numbered years.

3210. Modern Physics/(3).F.

A study of the theories and experiments which have led to current models in special relativity, atomic structure, lasers, solid state physics, x-rays, artificial and natural radioactivity, nuclear structure, nuclear fusion and fission and particle accelerators. Prerequisite: PHY 1151 or corequisite PHY 2010. Lecture three hours.

3220. Waves and Oscillations/(3).S.

A study of systems in physics described by oscillatory or wavelike motions. Some topics covered are: free and forced vibrations of coupled systems, electromagnetic waves, interference and diffraction. Corequisite: PHY 2010. Lecture two hours, laboratory three hours.

3230.* Thermal Physics/(3).S.

A study of the laws of thermodynamics and their application to physical, chemical and biological phenomena. An introduction to kinetic theory and statistical mechanics is included. Prerequisites: PHY 1104 or 1151, and MAT 2130. Lecture three hours.

*Offered in odd numbered years.

3350. Physical Science Investigations/(3).F;SS.

A course primarily for elementary education majors who choose their academic concentration in science. Simple demonstrations and laboratory experiments will emphasize a conceptual approach to the physical ideas usually introduced in the elementary science curriculum. Lecture two hours, laboratory two hours.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Required of all physics majors seeking the B.S. degree and teaching certification in Science Education.

3530-3549. Selected Topics/(1-3). On Demand.

For example: Biomechanics/(3), a study of physics as applied to the motion of the human body, particularly in various sports. Topics include

vectors and resolution of forces, kinematics and the trajectories of balls, momentum and energy and power with applications to football and track, rotational motion and torques with applications to diving, gymnastics and skating. Photographic studies and demonstrations will be emphasized. Lecture three hours.

3630. Digital Electronics/(3).F.

A study of the basic concepts and circuits based on Boolean algebra as applied to modern day digital equipment, especially microprocessors. Emphasis will be placed on integrated circuits TTL and CMOS sequential and combinational logic circuits and will include: gates, flip-flops, counters, shift-registers, multiplexers, decoders, and ROMS. Elements of digital logic design including simplification by Boolean algebra will be covered. The laboratory will consist of building TTL and CMOS circuits and examining their electrical and logic properties. Prerequisite: PHY 1104 or 1151. Lecture two hours, laboratory three hours.

3700. Microprocessors/(3).S.

A study of the architecture and instruction sets of common microprocessors including memory, input/output and support integrated circuits, assembly and high level languages. Lecture two hours, laboratory three hours. Prerequisites: PHY 2630, 3630.

3850. Environucleonics/(3).S.

A study of the interaction of atomic and nuclear radiation with Man and his environment—with special emphasis on the technology of measurement and criteria for evaluation. Discussions of basic radiation properties and radiation detection as well as special analysis techniques such as neutron activation and X-ray fluorescence will be integral to the course. Prerequisite: PHY 1104 or 1151. Lecture three hours.

3851. Environucleonics Laboratory/(1).S.

Laboratory investigation and skills development aligned with the methods of Physics 3850. Basic detection involving GM, gas flow and scintillation detector systems, pulse height analysis, statistical tests and treatment of data, utilization of neutron activation and X-ray fluorescence will be featured. Field trips may be required. Corequisite or prerequisite: PHY 3850. Laboratory three hours.

4210. Methods of Experimental Physics/(3).F.

Measurement theory, analysis, interpretation and evaluation of data, experiment design and scientific report writing. A limited number of advanced laboratory experiments will be performed which illustrate important concepts and methods.

Literature searches, written reports and some oral reports will be required. Lecture two hours, laboratory two hours. Prerequisite: PHY 2210.

Senior/Graduate Courses

4510. Senior Honors Research and Thesis/(3). On Demand.

Independent in-depth research and preparation of a thesis on a significant topic in physics, directed by a member of the physics faculty. A thesis is presented orally and in writing to the department. Course grade assigned by the departmental honors committee. Required for graduation with honors in physics. A student who completes this course with a grade of B and who graduated with a GPA of 3.5 in physics courses will be graduated with "Honors" in physics; with a grade of A and a GPA of 3.7 in physics a student will be graduated with "Highest Honors" in physics. Prerequisites: GPA of at least 3.5 overall and 3.5 in physics courses. Approval of proposed research topic and methods by departmental honors committee, and assignment of research thesis advisor during the semester prior to enrollment in this course. Corequisite: PHY 4640. Open only to majors in physics during their final undergraduate semester.

4630.* Electronics/(3).S.

A study of the analog electronics. Topics include: operational amplifiers, wave-shaping circuits, transducers, optoelectric isolators and preamplifiers and power amplifiers necessary to interface input and output transducers to digital equipment. Lecture two hours, laboratory three hours. Prerequisite: PHY 2630.

*Offered in odd numbered years.

4640. Advanced Modern Physics/(3).S.**

A study of quantum mechanics and its applications to statistical, solid state and nuclear physics. The major experimental and theoretical results that led to the development of the quantum theory are discussed in detail. Corequisites: PHY 3010-3020, 3210, or 3220, and MAT 3130.

**Offered in even numbered years.

4820. Medical Physics/(3).F.

A study of the various applications of the principles of physics to functions of the human body. Topics include: mechanics of the skeleton, fluid mechanics and the cardiovascular system, electrical signals in the body and cardiology, light and vision, sound and hearing, radiation in diagnosis and therapy. Prerequisite: PHY 1104 or 1151. Lecture three hours.

4880. Special Topics in Physics/(3).On Demand.

A course devoted to a single topic. Current examples are advanced microprocessors and vector analysis. For example, Advanced Microprocessors/(3), a study of microprocessor hardware and software with emphasis on applications to technical problems of current interest. Prerequisite: Consent of instructor.

4900. Internship/(3-12).F;S;SS.

Supervised work in applied physics in an industrial or other laboratory setting. Students must obtain approval of the departmental internship coordinator prior to enrolling. Graded on S/U basis only.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Political Science/ Criminal Justice (PS/CJ)

The purposes of the Department of Political Science/Criminal Justice are: to enable students to critically observe, analyze, and understand the complex political world in which they live; to make students cognizant of the fact that crime is only one of a variety of the nation's problems; to prepare individuals to recognize and to meet the complex problems of our society which affect our governmental and criminal justice systems; and to encourage students to become knowledgeable, active citizens who play a role in the political processes of the nation and the world.

A major in political science leading to the Bachelor of Arts degree consists of 33 hours including PS 1100, 2100, 3115, and at least one course in four of the following areas (1). Theory and Methodology; (2) International Relations; (3) American Politics and Government; (4) Comparative Government; (5) Public Law and Judicial Behavior; (6) Public Administration; (7) Political Behavior; (8) Public Policy. The area in which any particular course may be credited is indicated by the third digit of the course number. For example, Political Science 3660 is credited to area (6) Public administration. The remaining 12 hours are elective. To earn the Bachelor of Arts degree a student must complete six hours of the second year of a foreign language. Normally, an internship will not be offered for students seeking a Bachelor of Arts degree.

A major in Political Science leading to the Bachelor of Science (non-teaching) degree with a multidisciplinary concentration, consists of a minimum of 60 semester hours. This includes:

1. Core courses in Political Science consisting of PS 1100, 2130, 3115 and 21 semester hours of electives in Political Science.
2. A minimum of 30 semester hours in a career-oriented area with courses selected from several departments and disciplines. Core courses will be specified for each area with electives chosen with the consent of the advisor. Some suggested areas are public management; town, city and county management; political communications; public relations; political analysis; para-legal; and American Political Management.

Statistics 3810 is required.

Students must have written permission from the department chairperson prior to declaring this major.

Copies of each student's program of study must be on file in the Political Science Department Office prior to the student beginning that study.

A minor in Political Science consists of 18 hours including PS 1100 or 2100. The remaining 15 hours are elective but the courses must come from at least three of the areas of political science, as outlined above, and nine of the 15 elective hours must be taken at the 3000-4000 level.

The department also provides a concentration in Political Science for those majors in Social Science Education seeking a Bachelor of Science degree and teacher certification. Refer to index for that section. For the requirements in teacher education, see the Department of Curriculum and Instruction.

The Bachelor of Science Criminal Justice (BSCJ) degree consists of 54 semester hours including completion of CJ 1100, 2020, 3115, 3150, 3400, 3430, 3551, 4552, 4900; PS 1100; PSY 4551; and 12 semester hours of electives to be taken from a group of specified courses and approved by the advisor. In addition, STT 3810 is required.

To earn a Bachelor of Science in Criminal Justice degree a field experience in the form of an internship for 12 semester hours is required. This may be waived if the student has more than one year of work experience in a criminal justice agency. If it is waived, the student will complete 12 semester hours of approved criminal justice electives as a substitute.

A minor in criminal justice shall consist of eighteen semester hours including CJ 1100, 2020, 3430, 3551, and six hours of electives in criminal justice.

The Department of Political Science/Criminal Justice offers a Master of Arts degree in Political Science Education. The department also provides concentrations in Community, Junior and Technical College Teaching/Political Science or Secondary School Teaching/Political Science for those majors in Social Science Education seeking a Master of Arts degree. Persons interested in these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Political Science

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1100. American National Government and Politics/(3).F;S;SS.

A study of the development and operation of the American National government, its powers, organization and policies.

1200. Current Political Issues/(3).F;S.

A study of the current political issues and problems facing the national government. Problems in such areas as labor, education, the economy, agriculture, equal rights, foreign relations and national security will be analyzed.

2100. Introduction to Political Science/(3).F;S;SS.

A study of Political Science as a discipline; the course is divided into two parts. The first part familiarizes the student with the scope and content of politics and introduces the main approaches used to study political phenomena. The second part applies the general knowledge acquired in the first part to the study of a selected number of actual political systems.

2130. State and Local Government/(3).F;S;SS.

An examination of the organization, problems and powers of state and local governments in the United States, focusing upon the responses of states, counties, and municipalities to needs caused by poverty, growth, and social change.

2160. Introduction to Public Administration/(3).F;S.

A general survey course aimed at introducing the student to the theory and practice of public administration. The course includes an introduction to organization, theory, personnel and financial administration and administrative responsibility. The principal focus is on American public administration, but some comparisons and illustrations from other administrative systems are included.

2500. Independent Study/(1-3).F;S;SS.

3110. Political Theory Through Sixteenth Century/(3).F.

An examination of political theory from approximately 300 B.C. through the sixteenth century. The political philosophers studied include Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, Machiavelli, Luther, Calvin, and Jean Bodin. Emphasis is placed on historical development of political philosophy. Offered alternate even years.

3115. Research Methods/(3).F;S.

An introduction to the logic and techniques of social science research, examination of the structure of scientific inquiry, methods utilized to analyze information, with emphasis placed upon the interpretation of that information. Required of majors. Prerequisite: STT 3810 or equivalent.

3120. International Politics and Foreign Policy/(3).F;SS.

A study of the goals of foreign and national security policy and of the means by which they are achieved.

3130. American Political Parties and Interest Groups/(3).F;SS.

A study of the organization, tactics and functions of political parties and interest groups. A comparison of goals and methods of influencing public policy ranging from the normal to the revolutionary. Campaigning techniques discussed.

3150. The Judicial Process/(3).F.

An examination of the development and powers of the judiciary as seen through selected cases; and an examination of the operation and behavior of the courts and their personnel.

3210. Political Theory From the Seventeenth Century to the Present/(3).S.

A study of political thought from the seventeenth century to the present. Political philosophers studied include Hobbes, Locke, Rousseau, Burke, Hegel, Bentham, Marx, and Lenin. Emphasis is placed on the development of nationalism, capitalism, communism, socialism, and fascism.

3230. American Legislative Politics/(3).S.

An examination of the structure, functions and behavior of Congress and state legislatures, with emphasis on how composition, leadership, constituency role orientations and interest groups actively influence public policy. The legislative institutions are also viewed in relationship to larger environments and inclusive political systems.

3240. Comparative Politics/(3).F.

An examination of political system challenges and development patterns, with comparative reference to a number of systems including the USSR, Britain, France, and selected African and Asian countries.

3280. Public Policy Analysis/(3).F.

A study of the policy making process, with special attention to the various factors that influence policy choices in the American government and an examination of the procedures for evaluating actual and alternative public policy programs.

3328. Socio-Political Environment of Leisure/(3).F.

An interdisciplinary approach to the study of the development of and participation in leisure activities. A practical approach through the integration of social and political phenomena. Prerequisite: junior standing. (Same as SOC 3328.)

3330. Urban Politics/(3).S.

A focus upon politics in urban areas. Topics include the problems of urban government, politics within metropolitan areas, community power structures, and decision-making structures.

3500. Independent Study/(1-3).F;S;SS.**3520. Instructional Assistance/(1).F;S;SS.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On demand.**3630. Appalachian Politics/(3).F.**

An examination of the fundamental political problems and possibilities for the people in the Appalachian Region. The interrelationships of Appalachia with the larger American political system, political culture, and economy will also be studied. Offered alternate even years.

3660. Administrative Law/(3).F.

A study of the administrative powers and procedures in the United States and of the relevant experiences of some other democracies such as Britain, France with special attention to the legal and administrative methods of achieving a responsible bureaucracy and of balancing public interest with private rights.

4175. Public Opinion/(3).F.

An examination of attitude and opinion formation within and among publics; the role and impact of government secrecy on opinion; and a study of media as influence mechanisms.

4230. The Presidency and the Executive Branch/(3).F.

An examination of the central role of the American presidency in the political process. Emphasis is given to contemporary responsibilities of the President and of the major agencies supporting the President.

4270. Political Socialization/(3).S.

Focuses upon the process by which political behavior is learned; analyzes the role of socialization agencies throughout the life cycle; cross national comparisons; political elites and masses examined; discussion of counterculture trends.

4310. American Political Theory/(3).S.

A survey of American political thought from the colonial period to the present. Theorists discussed include Hamilton, Jefferson, Calhoun, and Dewey. Special emphasis is placed on the various modes of American political thought in the twentieth century.

4400. Selected Topics in Political Science/(1-3). On Demand.

An intensive examination of selected topics.

*Senior/Graduate Courses***4540. Studies in Regional Political Patterns/(1-3). On Demand.**

An examination of selected regions of the world which have common historical and cultural patterns influencing their political styles and capabilities. Topics may vary from semester to semester.

4550. Law and Society/(3).S.

An examination of the relationship between the values and culture of a society and the laws which it adopts; how law interacts with and responds to change in social values as seen by the courts through selected cases.

4560. Local Government Administration/(3).F;S.

Administrative process, management, personnel, budget and finance, and intergovernmental relations in local government. Prerequisite: Approval by Instructor.

4665. Public Management/(3).F;S.

A study of the organization and operation of government agencies and their role in policy making and implementation and an examination of the various concepts and theories pertaining to administrative behavior and to the performance of the basic tasks of management.

4720. International Organization and Law/(3).S.

An examination of the goals and structures of multinational organizations created to solve problems between nations, and the ways in which disputes between nations are settled.

4900. Internship in Public Affairs/(3-12).F;S;SS.

Field work in government, community, professional offices and agencies and involvement in

problem solving in these offices and agencies. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Courses of Instruction in Criminal Justice

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1100. Introduction to Criminal Justice/(3).F;S.

A study of the development and operation of the criminal justice system in the United States. Included will be an examination of the components which make up the criminal justice system, their roles and responsibilities as a part of the system.

2020. Police Process/(3).S.

An examination of social and historical settings of the police; police role and career; police discretion; police values and culture; organization and control.

2050. Introduction to the Legal System/(3).S.

An overview of the development of law and law as an instrument of social control; an examination of the different types of law and the nature of each; the framework within which the American legal system operates; an introduction to the basic terminology of law and the judicial system and how to use the library resources dealing with the study of the legal system.

2500. Independent Study/(1-3).F;S;SS.

3060. Crime Prevention/(3).F.

A study of comprehensive crime prevention involving neighborhood and urban design, community action, law enforcement practices, and environmental engineering.

3080. Security Systems/(3).S.

An examination of the role of security and security industry in criminal justice; the administrative, personnel, and physical aspects of the security

field; loss prevention management in proprietary and governmental institutions; and variations in physical security systems.

3115. Research Methods/(3).F;S.

An introduction to the logic and techniques of social science research, examination of the structure of scientific inquiry, methods utilized to analyze information, with emphasis placed upon the interpretation of that information. Required of majors. Prerequisite: STT 3810 or equivalent.

3150. The Judicial Process/(3).S.

An examination of the preadjudication and adjudication stages of the criminal process, the persons involved in the process, and the forces that influence the actions of the decision makers.

3250. Juvenile Justice/(3).F.

Legal and philosophical basis for a separate juvenile justice system, with a focus on juvenile rights and will include such topics as the police role in delinquency, due process, venue, adjudication and disposition hearings, and confidentiality in the juvenile process.

3330. Social Deviation/(3).S.

The course emphasizes the social factors in causation. Review is made of the leading theories in deviation and then deviation types are analyzed; homosexuality, drug use and addiction, alcoholism, alienation, etc. Prerequisite: SOC 3400 or permission of instructor. (Same as Sociology 3330)

3400. Criminology/(3).F.

Study of origins and purposes of criminal law; survey of the various theoretical approaches to the study of crime causation; examination of various categories of criminal behavior including violent crime, occupational crime, political crime, criminal sexuality; and an overview of the criminal justice system which seeks to deter, convict and punish offenders. (Same as Sociology 3400).

3430. Corrections/(3).F;S.

A study of the history and development of the adult correctional system as part of the larger adult criminal justice system. Includes overview of the criminal justice system, a review and analysis of theories of punishment, a study of institutional treatment in a total institution and the roles of inmates and staff, and a study of alternatives to incarceration such as parole and probation. Prerequisite: SOC 3400 or 3435 or permission of instructor. (Same as Sociology 3430).

3435. Delinquency and Juvenile Corrections/(3).S.

A study of the history and development of the juvenile correctional system as part of the larger juvenile justice system. Includes definitions of delinquency, a survey of various theoretical approaches to delinquency causation and punishment, a comparison of the juvenile and adult systems of correction and an overview of the special problems of juvenile offenders. (Same as Sociology 3435).

3500. Independent Study/(1-4).F;S;SS.**3520. Instructional Assistance/(1).F;S;SS.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading on S/U basis. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the criminal justice curriculum. May be repeated for credit when content does not duplicate.

3551. Criminal Law/(3).F;SS.

An introduction to the basic concepts of criminal law, definition of crime and defenses, function and purposes of substantive criminal law, limits of the criminal law, case study approach.

3552. Criminal Procedure/(3).S.

An analysis of constitutional limitations from arrest to release in the administration of criminal justice, including arrest, search and seizure, interrogation, identification procedures, and post conviction relief, case study approach.

3555. Private Security Law/(3).F.

A study of the law applicable to the private security industry and personnel including regulation, licensing, powers, duties, responsibilities, civil and criminal liability of private security companies and personnel.

4020. Contemporary Police Issues/(3).S. (Alternate years).

A examination of current social, legal, and organizational issues in contemporary law enforcement.

*Senior/Graduate Courses***4550. Law and Society/(3).S.**

An examination of the relationship between the values and culture of a society and the laws which it adopts and how law interacts with and responds to change in social values as seen by the courts through selected cases.

4552. Abnormal Psychology/(3).F;SS.

The study of individuals and groups who demonstrate atypical behaviors. This may include historical definitions of abnormality, standard psychiatric nosology and etiology, prevention and treatment of maladaptive behaviors. The concept of ultra-normal behavior may also be explored. Theoretical basis for the courses will reflect biases of the professor. (Same as PSY 4552)

4580. Private Security/(3).F. (Alternate years).

An examination of unique security problems in establishments, industrial establishments, universities and colleges; a review of private security regulatory boards, licensing, registration of private security businesses and personnel.

4670. Crime Analysis and Criminal Justice Planning/(3).S.

An examination of crime analysis-functions, methodologies, capabilities, and limitations; an examination of the function of planning in the criminal justice system on the national, state and regional levels and within local agencies. Offered alternate years.

4700. Applied Behavior Management/(3).F;S.

The application of operant contingency management principles to personal, interpersonal, and learning problems. (Same as PSY 4700)

**4900. Internship in Criminal Justice/(3-12).
F;S;SS.**

Field work in a criminal justice agency, office or institution and involvement in problem solving in these agencies and offices. Graded on S/U basis.

**For graduate courses (5000 and above) refer to
the Graduate Bulletin.**

Department of Psychology (PSY)

The Psychology Department is the sole agency in the University with responsibility for developing and maintaining undergraduate and graduate curricula in psychology, for providing instruction to nonpsychology students who enroll in psychology courses either as a requirement or as an elective, and to psychology students as a part of their major or minor. The department is committed to the belief that an understanding of the mechanisms of animal and human behavior contributes to a liberal education and forms the foundation for professional practice of psychology.

Consistent with this mission, the department seeks to fulfill the following objectives:

1. To provide students, majors or nonmajors, with excellent instruction in psychology.
2. To prepare students for specialization in psychology, so that they can function as bachelor level paraprofessionals, master level professional psychologists or continue training toward doctoral level competence.
3. To create interest in psychology—an interest that will be paralleled by a growing competency in the discipline.
4. To provide future teachers with sound psychological principles to underlie the teaching methodology.
5. To advance psychology as a science and as a means to promote human welfare.

Bachelor of Arts Degree

The Bachelor of Arts degree consists of 36 semester hours including PSY 2201, 3365, 4658, and STT 3810, and two courses from each of the following groups:

Group I—Psychology 3364 or 4654, 4650, 4651, 4652, 4655

Group II—Psychology 3301, 4550, 4551, 4552

Group III—Psychology 3390, 4660, 4670, 4671, 4700

An additional six hours of psychology electives are required.

Bachelor of Science Degree

The Bachelor of Science degree (non-teaching) consists of 60 semester hours, 36 semester hours in the major and 24 semester hours in a psychology-related multidisciplinary concentration. The specific requirements are twofold.

1. The core psychology requirements consist of PSY 2201, 3390, 3640, and STT 3810; 12 hours from PSY 3301, 3364 or 4654, 4550, 4551, and 4658; and 12 hours of psychology electives chosen in collaboration with the departmental advisor.

2. The multidisciplinary concentration consists of a minimum of 24 semester hours in courses in various other departments and approved by the departmental advisor. Examples of career concentrations are Vocational Rehabilitation, Mental Health Paraprofessional Work, Corrections, Child Development, Employment Counseling, and Personnel Management. A departmental advisor must approve the student's program of study before admission to the B.S. program.

Minor in Psychology

The minor in psychology consists of 15 semester hours in psychology, including PSY 2201. Students are encouraged to consult with departmental advisors to plan their courses to complement their major course of study.

Psychology Department Honors Program

The department offers honors courses on the undergraduate level to students who have distinguished academic records. Credit earned in honors courses may be applied toward the major, the minor, or the electives required for graduation. To graduate with "Honors in Psychology," a student must be recommended by the Departmental Honors Committee and meet the criteria for such consideration, a minimum GPA of 3.5 in psychology and successful completion of the honors sequence and a senior honors thesis. The honors sequence consists of 6 semester hours of honors courses, usually an honors section of General Psychology and an honors seminar.

Child Development Bachelor of Science Degree

The departments of Curriculum and Instruction, Home Economics, and Psychology cooperate to offer the B.S. in Child Development. This multidisciplinary degree, conferred by the Department of Home Economics, requires 21 semester hours of core courses (CI 3130 and 4590; HEC 2201, 3101 and 4100; and PSY 3660 and 4560) and courses in one of the three areas of concentration: Psychology, Curriculum and Instruction or Home Economics. Students will be advised in their department of concentration.

Master of Arts Degree in Psychology

The Department of Psychology offers a Master of Arts in Psychology General-Theoretical, which requires 30 semester hours and a thesis; a Master of Arts in Psychology Education, which requires 30 to 36 semester hours; a Master of Arts in Vocational Rehabilitation Counseling, with concentrations in General Rehabilitation and Health Psychology requiring 45 semester hours; a Master of Arts degree in Industrial-Organizational Psychology, which requires 46 semester hours; and a Master of Arts degree in Clinical Psychology, which requires a thesis and 48 semester hours. The Master of Arts in School Psychology (Level II), offered jointly with the Department of Human Development and Psychological Counseling, requires 60 to 66 semester hours. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Psychology

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the

appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

Psychology Honors

2201. General Psychology Honors/(3). Freshman/Sophomore.F;S.

A section of General Psychology 2201. Survey of basic principles and selected topics in psychology. Development of original critical thought in writing and discussion. Enrollment by invitation of the department or by application.

2510. Honors Colloquium/(3).F;S.

In depth study of selected topic(s) in psychology, encouraging independent scholarship in writing and discussion. Enrollment is by invitation or application. This course may be taken at both the sophomore and junior level for credit.

Psychology

2050. Psychology of Personal Adjustment/(3).F;S.

Psychology of Personal Adjustment is a course designed to increase the student's level of awareness of strategies useful in meeting a wide variety of situations encountered throughout life. Means of dealing with problems of motivation, self-identity, conflicts, and life goals are emphasized.

2201. General Psychology/(3).F;S;SS.

General Psychology introduces students to the study of human and animal behavior, providing a review and survey of basic principles and widely cited research. A first course in psychology sampling from the following areas of theoretical and applied psychology: experimental design and measurement; physiological aspects of behavior; learning and behavior modification; sensation and perception; personality; social psychology; clinical psychology and psychotherapy.

PSY 2201 IS PREREQUISITE TO ALL PSYCHOLOGY COURSES EXCEPT AS NOTED UNDER 3301 AND 3302 BELOW.

2500. Independent Study/(1-3).F;S;SS.

3301. Developmental Psychology/(3).F;S;SS.

A study of the aspects of human growth and development from conception through maturity. Attention is devoted to these processes as they may pertain to the educational setting. Students accepted into a teacher education program (Junior level or above) may enroll without prerequisite.

3302. Educational Psychology/(3).F;S;SS.

An analysis of the principles of classroom learning. The major concepts, theories, and research in the acquisition of knowledge and interpersonal social skills are emphasized. Special attention is given to the educational application of these principles. Students accepted into a teacher education program (Junior level or above) may enroll without prerequisite.

3318. Outdoor Recreation: An Ecological and Behavioral Approach/(2).S.

Teaches the recreation manager to better understand the complex interactions between the recreation resource and the human user. Recreation is described and studied as need-fulfilling behavior which can be enhanced by an understanding of the biological entities (flora and fauna) and their ecological relationships. (Same as BIO 3318).

3364. Principles of Learning/(3).F.S.

A survey of classical and modern theories and evidence on elementary learning phenomena in humans and animals. Emphasis is upon characteristics of Pavlovian and operant learning paradigms and resultant performance.

3365. Experimental Psychology/(3).F.

An introduction to basic principles and methods of conducting psychological experiments is presented through lectures, discussions, and laboratory experience in a variety of problem areas, such as perception, learning, and social processes. Recommended for those preparing for graduate study. Prerequisite: STT 3810. Lecture two hours, laboratory two hours.

3390. An Introduction to and Procedures in the Helping Professions/(3).F.S.

Historical, philosophical, and legal aspects of the helping professions. Emphasis placed on understanding the various approaches to counseling. Contributions of paramedical and other areas are discussed.

3500. Independent Study/(1-4).F;S;SS.

3510. Honors Colloquium/(3).F;S.

In depth study of selected topic(s) in psychology, encouraging independent scholarship in writing and discussion. Enrollment is by invitation or application. This course may be taken at both the sophomore and junior level for credit.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.

Such topics as hypnosis, ethology, psychotherapy, sex role differences, verbal learning, philosophical issues have been taught.

3640. Applied Research Methodology.(3).S.

A practical application of basic research concepts and skills useful in studies conducted in human services and other organizations. The course will provide familiarity with model studies, and practice in reading and evaluating research literature. Prerequisite: STT 3810 or equivalent.

3660. Psychology of Parenting/(3).S.

A study of the psychological impact of parenting upon adults and children. The psychological bases, the effects of parenting, styles, and the influence of cultural and role expectations will be examined as a background for analyzing and applying parenting skills. Prerequisite: PSY 3301 or equivalent.

*Senior/Graduate Courses***4510. Senior Honors Thesis/(3). On Demand.**

Independent study and research for an honors thesis. It will be directed by a member of the department and graded by departmental committee in an oral examination. The departmental honors committee will approve the thesis prior to enrollment in this course. Enrollment is by invitation only. Prerequisite: Completion of an approved honors sequence, including honors colloquium, with at least a grade of B in each. By departmental approval, the 6 hour honors prerequisite may be filled by completing 6 hours of Honors Colloquium; Advanced General Psychology and one Honors Colloquium, or exceptional performance in General Psychology 2201 and Honors Colloquium.

4550. Psychology of Personality/(3).F;S;SS.

A study of factors involved in the developmental and applied aspects of the broad area of personality theory.

4551. Social Psychology/(3).F;S;SS.

Social psychology surveys groups phenomena and the effects that group influence has on individual behavior. Key topics reviewed include

social validation processes, conformity and obedience behavior, cognitive dissonance, prejudice and attitude change, group differences, and a critique of intelligence testing.

4552. Abnormal Psychology/(3).F;S;SS.

The study of individuals and groups who demonstrate atypical behaviors. This may include historical definitions of abnormality, standard psychiatric nosology and etiology, prevention and treatment of maladaptive behaviors. The concept of ultra-normal behavior may also be explored. Theoretical basis for the course will reflect biases of the professor. (Same as CJ 4552)

4560. Psychology of Early Childhood/(3).F.

An intensive study of the physical, social, emotional and intellectual development from conception to the beginning school years. Emphasis will be placed on reviewing relevant research from major contributors such as Piaget, Erickson, White, Bruner, etc. The course will focus on the interrelatedness of the various aspects of development—the “whole child” concept. Prerequisite: PSY 3301 or equivalent.

4562. Psychology of Aging/(3).F.

Focus on the psychological changes associated with the process of aging. Particular attention will be devoted to cognitive and personality factors—stressing the elements of consistency and change in each. An attempt will be made to separate myth and reality as each area of functioning is discussed. Graduate students will be expected to become involved in an area of research at some level.

4592. Medical Aspects of Disability/(3).F.

Medical aspects of major physical disabilities with implications for rehabilitation. Opportunities will be provided for first-hand observation and experience in an institutional setting.

4595. Vocational Evaluation/(2-3).On Demand.

This course provides an introduction to the process, purpose, philosophy and practice of vocational evaluation. Critical issues in the practice of vocational evaluation including qualifications, models of assessment, techniques of vocational evaluation as well as professional issues will be explored. Course structure includes didactic instruction, small group work, demonstrations, and hands-on practice with assessment tools. When offered for 3 hours credit, more emphasis will be placed on evaluation techniques. (Prerequisite: Permission from the instructor.)

4596. Work Adjustment Services/(2-3). On Demand.

This course provides an introduction to the process of work adjustment as related to the vocational rehabilitation process. The emphasis is on focusing adjustment services to the final goal of job placement of people with disabilities. Course content includes structured adjustment planning, the techniques of work adjustment and professional considerations. Course structure includes instruction, small group work, demonstrations, and hands-on practice. When offered for 3 hours credit, more practice will be provided in adjustment planning and using techniques of work adjustment. Prerequisite: Permission from instructor.

4640. Seminar in Critical Issues in Psychology/(1-3). On Demand.

Contemporary research issues in psychology. Opportunities to consider a particular aspect of research in depth. Topics vary from year to year depending upon the interests of students. Prerequisite: A major or minor in psychology and permission of instructor.

4650. Physiological Psychology/(3).F.

An examination of the physiological correlates of behavior. Emphasis is placed on sensations, emotions, memory, and the basic drives.

4651. Perception/(3).S.

A survey of classical and contemporary theories of perception. Visual and auditory systems are emphasized.

4652. Comparative Psychology/(3).S.

Behavioral similarities between man, primates, and lower animals are reviewed. Topics include imprinting, territoriality, dominance, prewired learning propensities, aggression, and mating patterns, among others. Speculation about the origins of man and human behaviors are discussed.

4654. Cognitive Processes/(3).S.

A survey of classical and modern theories of human thought processes as they relate to performance in memory tasks, concept learning, and problem solving.

4655. Advanced General Psychology/(3).S.

A critical study of some of the major experimental and research findings and methods in contemporary psychology. Prerequisite: 15 hours of Psychology or permission of the chairperson of the Psychology Department.

4658. History and Systems of Psychology/(3).F;S;SS.

An analysis of physiological and philosophical antecedents for modern psychology, and the systems which emerge from these. The course provides perspective and closure relevant to the development of behaviorism, neobehaviorism, psychoanalysis, and gestalt psychology.

4660. Psychological Tests and Measurements/(3).S.

A critical survey of measuring devices in clinical, counseling, and educational practice emphasizing theory, development and standardization. Laboratory practice in methods of appraisal to include their administration, scoring and interpretation. Prerequisite: STT 3810.

4670. Industrial Psychology/(3).S.

A survey of potential and actual applications of psychological principles and methods to the problems of business, industrial and other organizations. Emphasis on personnel functions, the nature and etiology of behavioral deviations, and organizational factors related to these deviations.

4671. Organizational Psychology/(3).F.

A survey of potential and actual applications of psychological principles and methods to the problems of business, industrial and other organizations. Emphasis on organizational communication, the dynamics of work groups and individual motivation.

4700. Applied Behavior Management/(3).F;S.

The application of operant contingency management principles to personal, interpersonal, and learning problems. (Same as CJ 4700).

4900. Internship: Field Work in Applied Psychology/(3-12).F;S.

Supervised placement in a setting which provides appropriate opportunity for observing and practicing psychological skills. Among the settings in which such skills could be practiced are mental health centers, hospitals, rehabilitation centers, and departments in which personnel services are coordinated. Students must seek approval of their advisor in the psychology department before enrolling. Graded on S/U basis only.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Sociology (SOC)

Alfred M. Denton, Jr., Chairperson

The purposes of the Department of Sociology are:

1. To help the student gain an understanding of the structures and processes through which the individual participates in society.
2. To help provide a mature understanding of social behavior.
3. To prepare students for post-graduate programs in sociology.
4. To help prepare future teachers in colleges; community, junior and technical colleges; secondary schools.
5. To help prepare students for a wide variety of vocations and professional careers.

A major in sociology leading to the Bachelor of Arts degree consists of 30 semester hours including SOC 1115, 3885, 3950, and 21 semester hours of electives in sociology. In addition, STT 3810 and ANT 1210 are required. MAT 1020 should be the course taken to fulfill the mathematics requirement in general education.

The bachelor of science (non-teaching) degree with a major in sociology and a career-oriented, multidisciplinary concentration consists of a minimum of 60 semester hours to include the following:

1. A major in sociology with a minimum of 30 semester hours. This will include core courses consisting of SOC 1115, SOC 3885, SOC 3950; 9 to 12 semester hours of sociology courses that are specifically designated according to the area of emphasis; 9 to 12 semester hours of electives in sociology.
2. A multidisciplinary concentration with a minimum of 30 semester hours. The courses will be selected from several departments and disciplines. Core courses will be specified for each area of emphasis and any electives will be chosen with the consent of the advisor. Some suggested areas are corrections, evaluative research and gerontology. Other areas may be arranged.

Statistics 3810 is required. MAT 1020 should be the course taken to fulfill the mathematics requirement in general education.

Copies of each student's individual program of study, signed by the department chairperson, must be on file in the Sociology Department office prior to the students' beginning that study.

A minor in sociology consists of 18 semester hours including SOC 1115, and 15 semester hours of electives in sociology.

A minor in gerontology consists of 15-18 semester hours. The student's individual program of study must be approved by the chairperson of the Department of Sociology.

For the section on the curriculum for a major in Social Science Education with concentration in Sociology leading to the Bachelor of Science degree and teacher certification,

refer to the index. MAT 1020 should be the course taken to fulfill the mathematics requirement in general education. For the requirements in teacher education, see the Department of Curriculum and Instruction.

The Bachelor of Science degree in Social Work prepares students for the first level of professional practice in a variety of public and private social welfare agencies, organizations, and programs designed to enrich the quality of life and to improve the social functioning of individuals, families, groups, and communities served. Study includes the social, economic, and political processes involved in the development and change of social welfare institutions, the dynamics of human behavior, and the interventive methods and their applications to a wide variety of situations and clients. Thirty-nine hours of class and field instruction in social work and thirty-three semester hours of specified courses in the social sciences, the humanities, and natural sciences are required.

Degree requirements for a Bachelor of Social Work (B.S.W.) are: S.W. 2010, 2020, 2630, 2800, 3330, 3615, 3700, 4110, 4230, 4340, 4260, 4263, and 4400; in addition, one social work elective chosen from S.W. 2150, 3100, 3150, 3200.

Cognate courses required for the degree are: BIO 1101-1102 or equivalent; ANT 1210 or 2215; PS 1100; Philosophy 1100 or 2000; SOC 1115, 2000, and 3885; PSY 2201; PSY 4552 or SOC 3330; STT 3810.

Graduates have full professional status and may be granted advanced standing in two-year master's degree programs in social work.

A minor in Social Work requires 18 semester hours: S.W. 2010, 2100, 2630, and 2800, and two social work electives chosen from among the following: S.W. 2150, 3100, 3150, and 3200. The plan for the minor should be approved by the social work degree director.

The primary purpose of the minor is to complement a student's major. It does not prepare the student for social work practice.

The Department of Sociology offers three graduate Master of Arts Degrees. These include a Master of Arts Degree (without teacher certification) in Sociology, a Master of Arts Degree in Sociology, Education with a concentration in Community, Junior, or Technical College Teaching, and a Master of Arts Degree in Social Science, Education with a concentration in Sociology. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Sociology

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1110. Marriage and Family Relations/(3).F;S.

May not be counted toward a major or minor in sociology in the B.A. degree program. Analysis of the forms and functions of family relationships; sex roles, marital choice, procreation, and socialization; history of American family patterns and effects of contemporary social changes. This course is for freshmen and sophomores. Others must have permission of instructor.

1115. Introduction to Sociology/(3).F;S;SS.

An introduction to the field of sociology and the sociological perspective. Gives students a basis for understanding how society operates. Topics include, groups, family, bureaucracies, social class, power, deviance, minority relations, community and social change. Required for majors and minors.

2000. Social Problems in American Society/(3).F;S.

A survey course which examines the major social problems in America today, such as poverty, racism, sexism, aging, militarism and war, environmental abuse, crime, mental illness, drug abuse and alcoholism.

2500. Independent Study/(1-4).F;S.**2850. Sex Roles/(3).S.**

This course looks at sex roles in contemporary society with emphasis on the changing roles of women. Topics include socialization, work, law, interpersonal power, family roles and sexuality. Other topics may be added at the request of the students or initiative of the instructor.

3100. Gerontology/(3).F.

This course will provide a broad overview of the physical, psychological, social, and cultural aspects of aging. Major concepts, issues, and current research on aging will be analyzed, and current and proposed federal, state, and local programs impinging on the aged will be examined.

3200. Sociology of the Soviet Union/(3).S.

A survey course using sociological concepts to describe the social, economic, political and cultural life of the many ethnic and national groups of the USSR. An introduction to the study of Soviet society. Gives students a basis for understanding how Soviet society operates. Topics include social institutions, bureaucracy, social class, power, deviance, minority relations and social change.

3328. Socio-Political Environment of Leisure/(3).F.

An interdisciplinary approach to the study of the development of and participation in leisure activities. A practical approach through the integration of social and political phenomena. Prerequisite: junior standing. (Same as PS 3328.)

3330. Social Deviation/(3).S.

The course emphasizes the social factors in causation. Review is made of the leading theories in deviation and then deviation types are analyzed; homosexuality, drug use and addiction, alcoholism, alienation, etc.

3400. Criminology/(3).F.

Study of origins and purposes of criminal law; survey of the various theoretical approaches to the study of crime causation; examination of various categories of criminal behavior including violent crime, occupational crime, political crime, criminal sexuality; and an overview of the criminal justice system which seeks to deter, convict and punish offenders.

3430. Corrections/(3).F;S.

A study of the history and development of the adult correctional system as part of the larger adult criminal justice system. Includes overview of the criminal justice system, a review and analysis of theories of punishment, a study of institutional treatment in a total institution and the roles of inmates and staff, and a study of alternatives to incarceration such as parole and probation. Prerequisite: SOC 3400 or 3435 or permission of instructor.

3435. Delinquency and Juvenile Corrections/(3).S.

A study of the history and development of the juvenile correctional system as part of the larger juvenile justice system. Includes definitions of delinquency, a survey of various theoretical approaches to delinquency causation and punishment, a comparison of the juvenile and adult systems of correction and an overview of the special problems of juvenile offenders.

3500. Independent Study/(1-4).F;S.**3520. Instructional Assistance/(1).F;S;SS.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.

An opportunity to study a special topic or combination of topics not otherwise provided for in the sociology curriculum. May be repeated for credit when content does not duplicate.

3750. Propaganda/(3).S.

A study of the media and techniques of propaganda as an instrument of public opinion formation. Concepts from political science and sociology will be used in an analysis of the formation and nature of public opinion and pressure groups.

3885. Research Methods/(3).F;S.

Relationship of theory to research; research design, sampling procedures, research analysis. Required of majors.

3920. Panics, Disasters and Social Movements/(3).F.

A study of crowd, mass, and public behavior in panics, disasters and social movements. Patterns of leadership and social control are considered as are the effects of these events on society. Alternate years.

3950. Sociological Theory/(3).F;S.

A study of the various explanations of how society operates and major ideas and assumptions that have made the greatest impact on the field of sociology. The course covers both the early history of sociology as well as contemporary ideas and recent trends. Required of majors.

4000. Religion and Society/(3).F.

A general introduction to a sociological perspective on religion. Examines the social meaning and consequences of religion in both its religious and secular roles in modern society. Alternate years.

4100. The Community and Urbanization/(3).S.

Analysis of the structure and functioning of rural and urban communities; social organization and change within and among communities.

4300. Population and Society/(3).S.

Systematic study of the growth and change of populations in relation to their cultural setting; trends in fertility, mortality, migration, composition, and population policies, national and international implications of recent population growth trends. Alternate years.

4400. Social Change/(3).S.

A study of the changing nature of culture and society. Among the topics covered are: the social

forces and processes that provide the setting for change, tactics and strategies of change, resistance and opposition to change, and the effects of social change. Alternate years.

Senior/Graduate Courses

4560. Race and Minority Relations/(3).F;SS.

Examination of intergroup relations, including racial, ethnic, and women's issues; the bases of conflict, accommodation, and assimilation; the nature and consequences of prejudice and discrimination; evaluation of proposals for reduction or elimination of prejudice and discrimination.

4570. The Addictive Process/(3).F;SS.

An examination of sociological and psychological contributors to alcohol and drug addiction and abuse in our society. The addictive process and its impact on the individual and society are described, as well as treatment and preventive program efforts. Students will also examine their own feelings and attitudes about alcohol and drug use and abuse. Prerequisite: Sociology 1115 or permission of instructor.

4600. Political Sociology/(3).F.

Social influences on political behavior; the relationship between political and other institutions.

4750. Class, Power and Inequality/(3).S.

A study of the distribution of wealth, power, privilege, and prestige. The course examines conservative, liberal, and radical explanations of human inequality. Cross-cultural and comparative analysis is used to focus on various problems of inequality and their consequences.

4800. Sociology of the Family/(3).S.

The origin and development of the family as a social institution; the contemporary family in various cultures; the relationship of the family to the economic, political, religious, and educational institutions in American society.

4900. Field Experience: Internship (variable credit)/F;S;SS.

Supervised placement in a setting which provides an opportunity to observe and practice sociological skills. Graded on an S/U basis.

Courses of Instruction in Social Work

2010. Professional Social Work in Contemporary Society/(3).S.

Provides the student with essential beginning and basic knowledge about social work as a professional and social work practice in a changing society. Prerequisite: At least second semester freshman standing.

2020. The American Social Welfare System/(3).F.

An introduction to the concept of social welfare and to the public and private network of social programs, systems and services which exist, formally and informally, to resolve or ameliorate those personal and social problems which interfere with the fulfillment of basic human needs. Analysis of major issues, problems, strengths, and philosophical values related to the development, functioning, and evaluation of social welfare programs. Agency visit required. Prerequisite: Sophomore standing.

2150.* Social Welfare in Rural and Urban Contexts/(3).F.

This course compares and contrasts social services with diverse populations and the experience of the social work professional in differing environments. The Southern Appalachian populations are highlighted as one example of rural diversity, with efforts to sensitize students to diverse value sets and pertinent social welfare policy and issues. Prerequisite: SW 2010 and 2020 or consent of instructor.

*Offered in alternate years.

2500. Independent Study/(1-4).F;S.

2630. Human Behavior and the Social Environment/(3).S.

The purpose of the course is to prepare the student for skillful assessment of human functioning in varied social contexts. Systems theory is used as an organizing framework for the selection and use of relevant social sciences concepts in providing the basis for developing strategies for social work intervention. Prerequisite: Minimum of 3 hours each of psychology and sociology, and BIO 1102 or its equivalent.

2800. Basic Skills for the Social Professions/(3).S.

Knowledge and some practice of basic social work skills as they may be helpful to other related professions, including professional communication, interviewing, problem-identification, purposeful utilization of community resources, purposeful observation, and record-keeping. Prerequisite: SW 2630 or consent of instructor.

3100.* Social Services With Children and Youth/(3).S.

An introduction to the field of child welfare and an overview of related social welfare services, this course will deal specifically with the role of the social worker in service delivery, and will examine relevant social policies and their effect on practice. Generalist knowledge, values and skills applied to child welfare program and services. Prerequisites: SW 2020 and SW 2630 or consent of instructor.

*Offered in alternate years.

3150.* Social Services With Older Adults/(3).F.

Systematic study of social work approaches to provision of services to older persons in the context of gender, class, racial and ethnic groups, and culture. Focus on relevant social policies and services, and models of practice. Prerequisites: SW 2020 and SW 2630 or consent of instructor.

*Offered in alternate years.

3200.* Social Services With Troubled Families/(3).S.

An introduction to contemporary theories, methods and techniques employed by social workers to help troubled families cope with a wide range of problems including divorce, poverty, drugs and alcohol abuse, psychological and physical violence, and parent-child difficulties. Assists students to build on the strengths of families and to aid in the utilization of formal and informal helping networks. Prerequisites: SW 2020 and SW 2630 or consent of instructor.

*Offered in alternate years.

3330. Social Welfare Policies, Programs, and Issues/(3).F.

Examines policies and issues associated with existing social welfare delivery systems, emphasizes policy formulation and assessment of alternative strategies for establishing and meeting social goals. Influence of social work principles, values, and practice on social welfare policies and issues. Prerequisite: SW 2020.

3500. Independent Study/(1-4).F;S.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

3615. Foundations of Social Work Practice/(4).F.

Generic social work knowledge and skills useful in the problem-solving process with individuals, families, groups, organizations, and communities: the generalist approach. Emphasis on the conscious use of self, and an under-generalist approach. Emphasis on the conscious use of self, and an understanding of effective and ethical social work practice in a multi-cultural, multi-ethnic society. Two lectures, one laboratory session minimum of 4 hours per week. Prerequisite: Admission to the Practice Sequence.

3700. Social Work Methods I/(3).S.

Application of knowledge of human behavior in the social environment, the social welfare system, social policy, and beginning helping skills in intervention to methods of social work practice with emphasis on microsystems. Simulation of functions and task roles. Prerequisite: SW 3615.

4110. Social Work Methods II/(3).F.

Continuation of knowledge and skills applications to social work practice with focus on macrosystems. Prerequisite: SW 3700.

4230. Field Instruction I/(4).F;SS.

Supervised placement in selected human services agencies to integrate theory with practice and prepare for professional responsibilities. Approximately 240 hours required in social agency setting. Graded on an S/U basis. Prerequisite: Admission to the Practice Sequence.

4260. Field Instruction Seminar I/(1).F.

This seminar will meet once each week to bring together students from different field placements. The students are encouraged to share a range of learning problems encountered in different work settings in order to integrate academic concepts and theory with the realities of social work practice experienced in the field setting. Prerequisite or corequisite: SW 4230.

4263. Field Instruction Seminar II/(1).F;S.

Continued weekly seminar to bring together students from different field placements for discussion and integration of field learning. Prerequisite or corequisite: SW 4340.

4340. Field Instruction II/(4).F;S.

Continued placement in selected human services agencies under professional supervision. Approximately 240 hours required in social agency setting. Graded on an S/U basis. Prerequisite: Social Work 4230.

4400. Senior Seminar: Issues and Ethics for Practice/(1).S.

Discussions based on individual reading, research, and study of selected topics in social work, with focus on practice realities and professional issues. Helps student prepare to complete undergraduate professional and general educational experience and move into professional life. Prerequisite: SW 4260.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

The John A. Walker College of Business

J. Paul Combs, Dean

Barry W. Elledge, Associate Dean

The College of Business has as its primary aim the development of future leaders for the business, industrial, governmental and educational communities. Through courses of instruction and other educational programs, an attempt is made to develop the analytical skill and decision-making ability of each student; to enhance one's understanding of economic concepts; to increase one's knowledge of business and educational practices and innovations; and to expand one's awareness of the role and function of industrial organizations.

Departments

The College of Business consists of the following six departments:

Accounting

Decision Sciences

Economics

Finance, Insurance and

Real Estate

Management

Marketing

Degrees Offered

Through the College of Business, students can obtain the following degrees:

1. Bachelor of Science in Business Administration (BSBA), with majors in accounting; banking; economics; finance; health care management; individually-designed; information systems; management; marketing; office systems management; real estate and urban analysis; restaurant, hotel and resort management; risk and insurance.
2. Bachelor of Science in Business Education (with teacher certification).
3. Bachelor of Science in Marketing Education for Teachers (with teacher certification).
4. A Master of Business Administration (MBA).
5. A Master of Science in Accounting.
6. A Master of Arts in Economics and Business Teaching with concentration in Community, Junior and Technical College Teaching or Secondary School Teaching.

7. A Master of Arts in Economics.

The Department of Economics offers the following degrees through the College of Arts and Sciences:

1. Bachelor of Arts in Economics.
2. Bachelor of Science in Social Science, Education with a concentration in economics.

Advisement

Advisement for students in the College of Business is available through the Office of the Undergraduate Advisor located in the Dean's Office. Ordinarily a business student will declare a major at the end of the freshman year and the student's records will then be moved to the College of Business for advisement purposes and record keeping. Each semester group informational and advising sessions will be held for each major. Each student is expected to attend one of these sessions during the semester he or she declares a major. In addition, each student is expected to visit the undergraduate advisor's office the semester prior to graduation to review the student's progress toward meeting degree requirements.

Students are invited to use the advisement services at any time. However, neither advisement by a representative of the College of Business or transference of records to the College constitutes admission to the College. As noted later, full admission to the College of Business is required before students are allowed to take junior and senior courses in the College.

General Undergraduate Degree Plan Outline

- I. A minimum of 50 semester hours as follows:

General Education requirements with MAT 1030 being the Math selection (see the General Education requirements, pp. 48-49).	39-41 s.h.
ECO 2030, 2040, 2100 (ECO 2030 may be used as one of the Social Sciences requirements in General Education).	9 s.h.
Free electives	0-2 s.h.
<i>(Math 1030 and Economics 2030, 2040, and 2100 may not be taken on the pass-fail option by College of Business majors.)</i>	
TOTAL	50 s.h.

- II. A minimum of 54 semester hours inside the College of Business as follows:

Core requirements (<i>College of Business majors may not elect the pass-fail option for the following courses</i>)	
ACC 2100, 2110	6 s.h.
DS 2660, 3650	6 s.h.
FIR 2150, 3680	6 s.h.

MGT 3151, 4750	6 s.h.
MKT 3050	3 s.h.
ECO 3100 (B.S.B.A. majors) or	3 s.h.
PSY 3302 (BE and ME majors) or	3 s.h.
BE 3550 (Office Admin. majors)	3 s.h.
TOTAL: Business Core	30 s.h.
Major requirements plus College of Business electives numbered 3000 or above*	24** s.h.
TOTAL: College of Business	54*** s.h.

*Note: Only one s.h. of Instructional Assistance (3520) may be used to satisfy College of Business elective requirements.

**32 s.h. for Accounting majors

***62 s.h. for Accounting majors

- III. Completion of an additional 18 semester hours. At least 9 semester hours must be outside the College of Business (they may be at any level). At least 9 s.h. must be 3000 level or above (they may be taken inside or outside the College of Business).
- | | |
|--|-------------|
| Sub total | 18 s.h. |
| Total semester hours required for graduation | 122*** s.h. |
- ***130 s.h. total for Accounting majors

Admission to the College of Business (Undergraduate)

To be qualified for admission to the College of Business as a candidate for a baccalaureate degree, a student must have:

1. Completed at least 60 semester hours.
2. A grade-point ratio of at least a 2.0.
3. Completed: a. ENG 1000, 1100
b. MAT 1030
4. Completed the following College of Business courses with a grade-point average of at least 2.00:
ECO 2030, 2040, 2100
ACC 2100, 2110
FIR 2150, DS 2660
5. Received a satisfactory score on an English examination as designated by the Dean of the College of Business, currently interpreted as a minimum grade of "C" in English 1000.
6. Neither advisement by a representative of the College of Business or transference of student records to the College of Business constitutes admission to the College of Business.

A student who is a candidate for a teaching certificate must be admitted to the teacher education program.

SPECIAL NOTE:

Enrollment by undergraduates in 3000 and 4000 level courses in the College of Business is limited to those students admitted to a degree-granting college (and meeting the listed course prerequisites), or by special permission of the appropriate department chairperson. However, the College of Business core courses of FIR 3680, MGT 3151, and MKT 3050 are limited specifically to those students admitted to the College of Business, or by special permission of the appropriate department chairperson.

Bachelor of Science in Business Administration (BSBA)

In order for a student to earn the Bachelor of Science in Business Administration degree, the following requirements must be met:

1. Completion of a minimum of 122 semester hours (130 hours for the accounting major) with a cumulative grade-point average of at least 2.00, and a grade-point average of at least 2.00 on all work attempted in the College of Business at the 2000 level and above. A transfer student must have at least a 2.00 grade-point average on all work attempted in the College of Business at the 2000 level and above and complete at ASU a minimum of eight semester hours (14 hours for the accounting major) of courses in the major field of study.
2. Completion of:
 - A. A minimum of 50 semester hours outside the College of Business including ECO 2030, 2040, 2100, MAT 1030 and the university-wide general education requirements as outlined in the General College section.
 - B. The 30 semester hours core in the College of Business as follows: ACC 2100, 2110; DS 2660, 3650; FIR 2150, 3680; MKT 3050, MGT 3151, 4750; ECO 3100.
 - C. A minimum of 24 semester hours (32 hours for the accounting major) in the College of Business at the 3000 level or above including the major requirements.
 - D. An additional 18 semester hours. One-half of these hours must be outside the College of Business (they may be at any level). One-half must be 3000 level or above (they may be taken inside or outside the College of Business.)
3. No minor is required for the BSBA degree. However, a minor in International Business is available for business majors (see p. 146). Also, a minor can be completed outside the College of Business.
4. Completion of residence requirements.
5. Compliance with regulations concerning the settlement of all expense accounts.
6. Recommendation of the faculty.

Advising and counseling assistance is available to each student to help select and plan an academic program. However, the final responsibility for meeting all academic requirements remains with the student.

The Typical Program of Study for the B.S.B.A.

(Accounting majors need eight additional hours in the major)

FRESHMAN

Fall		Spring	
ENG 1000	3✓	ENG 1100	3✓
Science	3-4	Science	3-4
HIS 1101	3	HIS 1102	3
Soc. Sc. elective	3✓	MAT 1030*	4
Humanities or business elective	3	PE	1
PE	1		
	<hr/>		<hr/>
	16-17		14-15

SOPHOMORE

Fall		Spring	
Econ 2030 (counts as Soc. Sc. elective)	3	Econ 2040	3
Acc 2100	3✓	Acc 2110	3✓
FIR 2150	3✓	Econ 2100	3
DS 2660	3	Humanities	3
Humanities	3	Humanities	3
	<hr/>		<hr/>
	15		15

To take junior and senior courses, the student must qualify for full admission into the College of Business by completing MAT 1030, plus the seven listed sophomore business courses with an overall average of "C".

JUNIOR

Fall		Spring	
Core course	3	Core course	3
Core course	3	Core course	3
Core course	3	Major courses**	
Major course(s)	6-7	& electives	9-10
or elective	6-7		
	<hr/>		<hr/>
	15-16		15-16

Core courses at the junior year include ECON 3100, DS 3650, FIR 3680, MGT 3151, and MKT 3050.

SENIOR

Fall		Spring	
Major courses, and/or business or general electives	16	MGT 4750***	3
	<hr/>	Major course**	
	16	Electives in College of Bus.** or general elective	13
			<hr/>
			16

Total 122 s.h. (130 s.h. for accounting majors)

*Students who do not place into MAT 1030 should start the recommended math sequence the first semester.

**Each major (except Accounting) requires a total of 24 s.h. in addition to the core courses required of all business majors (listed above). Typically, a business major requires about 15 s.h. in specified courses, and 9 s.h. of 3000-level electives in the College of Business to complete the 24 s.h. in the major.

***Should be taken only after completion of all other business core courses (listed above)

Bachelor of Science Degree in Marketing Education for Teachers

(approved for North Carolina teacher certification) *

For the requirements of this major see the Department of Management.

*If a student is planning to teach in another state, certification requirements may differ somewhat; therefore, please consult with the department chairperson or appropriate state agency.

Bachelor of Science in Business Education

(approved for North Carolina teacher certification) *

For the requirements of this major see the Department of Management.

*If a student is planning to teach in another state, certification requirements may differ somewhat; therefore, please consult with the department chairperson or appropriate state agency.

Bachelor of Arts Degree

In cooperation with the Department of Economics, the College of Arts and Sciences offers the Bachelor of Arts degree in economics. For the requirements for this major see the Department of Economics. For the requirements for this degree programs, refer to that section in the index.

International Business Studies

The Walker College of Business has an extensive program of study in international business. It is designed to not only assist students in developing skills needed to compete in world markets, but to contribute to their preparation for careers in export marketing and export sales management, global sourcing, international finance and banking, international economics, international accounting and management of the multinational firm. The Office of International Studies is available to advise students on courses, study abroad opportunities, international internships and career opportunities here and abroad.

International Business Minor

The International Business Minor is available to all majors. It provides a multidisciplinary business training designed to complement the student's functional major. This allows students the opportunity to develop their functional skills while utilizing their elective hours to study the international aspects of business. A minimum overall GPA of 2.0 is required for the courses included in the minor.

Students are required to complete 15 s.h. according to the following format:

Minor Requirements (6 s.h.)

FIR 3350	International Business Transactions	3 s.h.
ECO 3410	International Economics	3 s.h.

Minor Electives in International Business (select at least 6 s.h.)

ECO 3040	Economic Growth & Development	3 s.h.
FIR 4750	International Business Finance	3 s.h.
MGT 3800	International Management	3 s.h.
MKT 4550	International Marketing	3 s.h.
ACC 4730	Accounting and International Business	3 s.h.

Students may select 3 semester hours from outside the College of Business from any of the following courses (3 s.h.):

ANT 3310	Human Ecology
GHY 3210	Economic Geography
GHY 3011	Europe/U.S.S.R.
GHY 3012	U.S./Canada
HIS 2302	History of Modern latin America
HIS 2402	History of Asia since 1500
HIS 2422	History of Africa since 1850
HIS 3134	Twentieth Century Europe
HIS 3624	Modern Britain
HIS 3820	U.S. Foreign Policy
HIS 4554	Modern China
HIS 4564	History of Canada
HIS 4566	History of Mexico
PS 3120	International Politics & Foreign Policy
PS 3240	Comparative Politics
PS 4720	International Organization and Law

Foreign Languages: Any course at 3000 level or above, except courses in Latin or Literature.

Other selected topics courses or seminars related to the international business environment, with the approval of the Dean of the College of Business.

Students choosing to enter the "joint venture" program to pursue a double major in economics and language should also consult with these academic departments.

Business Study in Europe Program

The College of Business encourages students to travel and study in other countries and offers a number of opportunities to do so. Students may complete one or two sessions of summer school in the Business Study in Europe Program, hosted by schools near Paris, France and Würzburg, Germany. Courses, as described in the Summer Bulletin, are offered in general business and economics, international business and trade, culture and language. Students have the opportunity of visiting foreign firms, government agencies and international banking and commercial centers. The Business Study in

Europe Program is designed to be an affordable alternative to summer school for ASU students. The Office of International Studies is available to recommend semester or year-long foreign study opportunities for those interested.

International Business Students Association

This student organization serves as a center for student interest and activities in international business on the ASU campus and beyond. Students sponsor a variety of programs on campus, including prominent guest speakers, and become involved in a number of exciting public service projects. For example, in their Export Awareness Program students sponsor discussion and slide programs in high schools across the state.

Undergraduate Minor in Business

(for non-business majors)

Students **not majoring in the College of Business** may earn a business minor by completion of the following 18 hours of coursework:

Course	Credit
ECO 2030 Principles of Economics-Price Theory	3
ACC 2100 Principles of Accounting I	3
MGT 3010 Survey of Management	3
MKT 3010 Survey of Marketing	3
FIR 3010 Survey of Finance	3
Plus one of the following courses:	3
ECO 2040 Principles of Economics-Macro	(3)
ECO 2100 Economic & Business Statistics I	(3)
ACC 2110 Principles of Accounting II	(3)
FIR 2150 Legal Environment of Business	(3)
DS 2660 Introduction to Data Processing	(3)
TOTAL	18 s.h.

All 2000-level courses should be taken prior to the 3000-level courses in the minor. ECO 2030 can also be used as a social science credit for the general education requirements. A minimum overall GPA of 2.0 is required for the courses included in the minor.

For non-business majors who want a more specialized minor, each department in the College of Business offers a departmental minor. For more information, see the appropriate department.

Graduate Degrees

The College of Business offers four master's degrees: the Master of Business Administration (MBA), the Master of Science in Accounting, and the Master of Arts in

Economics and Business (with a major in Business Teacher Education,) and the Master of Arts in Economics.

Students interested in graduate work in the College of Business are encouraged to talk with the Director of Studies in the College of Business or to inquire at the Dean's Office for additional information. Specific requirements for these degree programs are found in the *Graduate Bulletin*.

Scholarships

The College of Business offers several very attractive scholarships to interested and qualified students. Information about these scholarships may be obtained from the associate dean.

Individually Designed Major

In areas where the College of Business can provide adequate academic support a student, in consultation with an adviser and with the permission of the Dean's Office, can contract to pursue an individually designed major in the BSBA program. The program of study will focus on courses selected to fit the student's particular career objectives. Such a program will constitute a contract between the student and the College of Business and must be formulated at least one academic year prior to expected graduation. Interested students should confer with the associate dean of the College of Business to develop a specific program of study.

An individually designed major, leading to the Bachelor of Science in Business Administration degree, must include completion of the College of Business core and a minimum of 24 additional semester hours numbered 3000 or above contracted individually with the College of Business.

Internship Programs

The College of Business offers internship opportunities for juniors or seniors (generally not authorized in the student's last semester) who have a declared major or minor in the College of Business. Such internships may be designed in the areas of accounting, banking, business education, economics, finance, health care, information systems, insurance (actuarial science), management, marketing or real estate with the permission of the Internship Coordinator. An internship course is offered in every department in the College of Business. See courses listed as 3900.

Students receive academic credit of 6 s.h. for internships in the summer, and 9 s.h. for internships in the Fall or Spring semester.

Executive-in-Residence Program

Through this program, an executive with a business firm becomes a full-time member of the faculty in the College of Business for a semester or shorter period of time. Students can interact with active businessmen with varied backgrounds adding an exciting new dimension to the educational process, as well as gaining valuable insight into the "real world" of business prior to graduation.

Transfer of Credit from a Two-Year Institution

Courses substantially equivalent to those numbered 1000-2999 in the College of Business at Appalachian may be acceptable for transfer from an accredited two-year institution as credit toward meeting degree requirements within the College. Credit for upper-division courses (numbered 3000 or above) taken at a two-year institution may be earned by examination.

Beta Gamma Sigma

This national honorary society for business administration students was founded in 1913. The ASU chapter was established in 1977. Membership is a signal honor and is limited to outstanding men and women students who give promise of success in the field of business and who rank in the upper 5 percent of the junior class or the upper 10 percent of the senior class. Detailed information can be obtained from the College of Business Dean's Office.

Department of Accounting (ACC)

James F. Jones, Chairperson

Accounting students are encouraged to acquire a sound liberal education. They are expected to demonstrate a grasp of the broader purposes of business and governmental organizations so that their accounting studies can be seen in the perspective of those broader purposes. Accounting courses in the curriculum are designed to develop strong professional capabilities which enable students to pursue successfully their chosen career paths in public accounting, managerial accounting and accounting for not-for-profit institutions such as hospitals or governmental entities.

Students are encouraged to consider planning a program of six to seven semesters and/or summer sessions of study beyond the sophomore level in order to:

1. Earn both the Bachelor of Science in Business Administration (BSBA) and the Master of Science (M.S.) degrees in Accounting.
2. Spend one semester as an intern (with pay) in accounting with a CPA firm, business firm, governmental entity, or not-for-profit private institution. Internships are optional.

3. Study in a selected area of accounting (for example, auditing or taxation) or a complementary discipline, such as electronic data processing, health care management or financial analysis.

Students majoring in accounting may earn the BSBA degree in four to five semesters and/or summer sessions of study beyond the sophomore level. Students who complete upper level studies in two years usually must take some courses in summer session. Credit toward the BSBA is given for approved internships. Prior to an internship the student must consult with the department chairperson regarding courses to be taken following the internship. A special option for accounting majors is a ten-week winter internship for six semester hours of credit. Students completing the special winter internships return to campus shortly after March 15 and attend special "spring minimester" accounting courses to earn an additional six semester hours of credit, making a total of 12 hours of credit for the entire spring semester. The 10-week winter internships and spring "minimester" constitute a unique program in North Carolina offered only at ASU.

The BSBA degree with a major in accounting may be obtained by completion of the following courses in addition to the required College of Business core courses.

ACC 3100-3110	Intermediate Accounting I and II	8 s.h.
ACC 3200	Cost Accounting	3 s.h.
ACC 3570	Accounting Systems and Internal control	3 s.h.
ACC 3580	Individual Income Taxation	3 s.h.
ACC 4550	Accounting Theory	3 s.h.
ACC 4560	Introduction to Auditing	3 s.h.
ACC ----	(Accounting electives above 3000	
ACC ----	except internships)	6 s.h.

In addition to these requirements, each accounting major must complete a minimum of three semester hours in College of Business courses numbered 3000 or above. Students intending to qualify for one of the professional examinations in accounting should take the following:

CPA Examination: ACC 3550, 4580, 4590, 4660, 4710, 4990; FIR 3910, 3920.

CMA Examination: ACC 4580, 4660, 4710, 4990; ECON 3020; FIR 3690; MGT 3700; DS 3680.

(Two of these courses could be taken for above electives.) The certifying agency should be contacted for other examination requirements.

Accounting majors are advised to use their elective hours in areas such as law, finance, data processing, mathematics, statistics, economic theory, additional accounting courses, and management. An internship (see above) may be elected to provide practical experience, with academic credit, in the field of specialization.

A minor in accounting may be obtained by the completion of 15 semester hours, consisting of ACC 2100-2110 and nine additional semester hours of electives in accounting. A minimum overall GPA of 2.0 is required for the courses included in the minor.

A Master of Science in Accounting consisting of 30 semester hours is available. For more information, refer to the description of the Master of Science in Accounting program in the Graduate School section.

Courses of Instruction in Accounting

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

2100. Principles of Accounting I/(3).F;S;SS.

The initial course in the theory and practice of financial accounting. Topics emphasized include the preparation, reporting, and analysis of financial data. Prerequisite: sophomore standing.

2110. Principles of Accounting II/(3).F;S;SS.

A course dealing with the concepts and development of accounting data for decision making. Topics emphasized include manufacturing cost systems, cost-volume-profit analysis, and budgeting concepts. Prerequisite: ACC 2100.

2500. Independent Study/(1-4).F;S;SS.

3100. Intermediate Accounting I/(4).F;S;SS.
Financial accounting theory and practice underlying the accounting process. Topics emphasized include asset and liability accounts, the related income measurement, valuation, and reporting problems associated with these accounts. Prerequisite: A minimum grade of C (2.0) in ACC 2110.

3110. Intermediate Accounting II/(4).F;S;SS.

A continuation of Accounting 3100. Topics emphasized include analysis of stockholders' equity accounts, income determination problems, changes in accounting methods and estimates, fund statements, statement analysis, and special problems. Prerequisite: A minimum grade of C (2.0) in ACC 3100.

3160. Introduction to Individual Taxation/(1).F.

Preparation of state and federal income tax returns. Topics emphasized include gross income, adjusted gross income, deductions and exemptions, capital gains and losses, computation of tax liability, audit of tax returns, tax questions, the IRS and the courts. Prerequisite: None. Not available to accounting majors.

3200. Cost Accounting/(3).F;S;SS.

Introduction to cost accounting, definitions and objectives. Topics emphasized include cost-volume-profit relationships, job-order accounting, budgeting, systems design and human motivation, flexible budgets, standard costs, contribution approach to decisions, cost allocation, joint product and by-product costing, process costing. Prerequisite: ACC 2110 with a minimum grade of C (2.0).

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.

3550. Accounting for Non-Profit Organizations/(3).F;S;SS.

Application of principles of accounting, budgetary control, and financial management to nonprofit organizations. Discussion and cases will be drawn from municipal and county governmental units, universities, hospitals, and other nonprofit organizations. Prerequisite: ACC 2110 with a minimum grade of C (2.0).

3570. Accounting Systems and Internal Control/(3).S;SS.

An in-depth treatment of internal control and related accounting procedures; authorization and documentation; flowcharting and scheduling. Design of Accounting Systems to provide information for financial reports and to meet legal requirements for adequacy of accounting records

and internal controls. Development of skills and expertise required for the study of contemporary accounting systems and internal auditing. Knowledge of a computer programming language is desirable but not essential. Prerequisite: ACC 3100 with a minimum grade of C (2.0).

3580. Individual Income Taxation/(3).F;S;SS.
Concepts and methods of determining federal income tax liability for individuals. Topics emphasized include personal deductions, tax credits, capital gain and loss provisions and accounting methods. Emphasis is also placed on research methodology and individual tax planning.

3900. Internship/(6 or 9).F;S;SS.

A full-time work situation for accounting majors providing an in-depth exposure in accounting practices. Nine hours granted for 15-week internship, six hours granted for 10-week summer internship or the special senior internship scheduled during a mini-session of the spring term. The student must report on his/her experiences and will participate in individual conferences and/or seminars related to the experience. Prerequisite: Junior or senior standing and permission of the departmental internship coordinator. Graded on an S/U basis.

Senior/Graduate Courses

4550. Accounting Theory/(3).F;S;SS.

Study of the history and development of accounting principles with special emphasis on the authoritative pronouncements. Prerequisite: ACC 3110 with a minimum grade of C (2.0).

4560. Introduction to Auditing/(3).F;S;SS.

A survey course introducing the student to selected auditing standards, types of services, analysis of reports, legal responsibility, ethics, internal control and SEC requirements. This course is not intended to meet the requirements in auditing for taking the CPA, CMA, and CIA Examinations. Prerequisite: ACC 3110 with a minimum grade of C (2.0).

4580. Income Taxation of Corporations/(3).F;S;SS.

Concepts and methods of determining federal tax liability of corporations. Topics include ordinary income, capital gains and losses, net operating loss, reorganizations, contemporary problems in corporate taxation and tax research. The student will also be introduced to estate, gift and partnership taxation. Prerequisite: ACC 3580 with a minimum grade of C (2.0).

4590. Advanced Accounting I/(3).F;SS.

An examination of the special problems in accounting for business combinations and consolidated corporate entities. Topics also include home office/branch and foreign operations accounts. Prerequisite: ACC 3110 with a minimum grade of C (2.0).

4660. Auditing Concepts and Applications/(3).F;S;SS.

An indepth study of ASB pronouncements and application of GAAS to an audit (public, internal and governmental) engagement. Greater emphasis on system analysis, relationship of internal control to audit objectives, and purpose of selected audit procedures—cases used where applicable. Prerequisite: A minimum grade of C in ACC 4560.

4710. Advanced Cost Accounting/(3).S;SS.

Cost analysis and capital budgeting. Topics emphasized include inventory planning and control, spoilage and scrap, systems and internal control, performance measurement, transfer pricing, decision models, cost behavior patterns, analysis of variance, mix and yield variances, operations research techniques, linear programming. Prerequisite: ACC 3200 with a minimum grade of C (2.0).

4730. Accounting and International Business/(3).S;SS.

A study of selected issues in accounting for and taxation of international business and related effects on organizational and operating decisions. Subjects include DISCs and Foreign Sales Corporations; dual taxation and tax treaties; impact of alternative taxing methods on international competition; international accounting standards; foreign current translations; Foreign Corrupt Practices Act. Prerequisite: ACC 2110, ACC 5190, or equivalent.

4810. Seminar in Accounting/(3).On Demand.

4990. Professional Examination Preparation/(3).F;S.

An intensive review of the accounting discipline, the purpose of which is to assist the student to bring together his/her coursework in accounting so as to maximize performance on a professional examination. All coursework is updated to include the latest pronouncements of the various rule making bodies. Prerequisite: Consent of Instructor.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Decision Sciences (DS)

Billy M. Bagwell, Chairperson

The Department of Decision Sciences offers coursework in the areas of Information Systems, Quantitative Methods and Production/Operations Management. Students in Decision Sciences are encouraged to acquire a broad liberal education in order to understand the interface between the technical and non-technical aspects of business. A major in Information Systems is offered by this department and is designed to develop professional skills/capabilities which enable students to pursue careers in computerized information systems areas in either the public or private sectors of our economy.

Bachelor of Science in Business Administration

(with major in Information Systems)

A Bachelor of Science in Business Administration (BSBA) with a major in Information System consists of 24 semester hours in addition to the College of Business core courses required for the BSBA degree. The requirements are shown below.

DS 3550	Systems Analysis and Design	3 hrs.
DS 3670	Applications (COBOL) in Bus. Data Proc.	3 hrs.
DS 3680	Modeling and Simulation	3 hrs.
DS 3690	Adv. Appl. (COBOL) in Bus. Data Proc.	3 hrs.
DS 4690	Data Base Processing	3 hrs.
DS 4790	Current Topics in Information Systems	3 hrs.
College of Business electives 3000 and above		6 hrs.

The elective hours may be in any area of business. An internship may be elected to provide practical experience, with academic credit, in the Information Systems field. Students are encouraged to take their other electives in mathematics, computer science, quantitative methods or statistics.

Undergraduate Minor in Information Systems

(for non-business majors only)

A minor in Information Systems may be obtained by completing the following:

DS 3550	Systems Analysis and Design	3 hrs.
DS 3670	Applications (COBOL) in Business Data Processing	3 hrs.
DS 3680	Modeling and Simulation	3 hrs.

**DS 3690 Advanced Applications (COBOL) in Business
Data Processing**

3 hrs.

In addition to these courses, DS 2660 or its equivalent must be completed. A minimum overall GPA of 2.0 is required for the courses included in the minor.

A Master of Business Administration (MBA) degree is available. For more information, refer to either the Graduate Degrees described earlier under College of Business programs or the Graduate Catalog.

Courses of Instruction in Decision Sciences

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

2500. Independent Study/(1-4).F;S;SS.

2600. Computer Survey for Non-Business Majors/(2).On demand.

A non-technical survey of the applications of computers in a wide range of academic disciplines. Designed to acquaint the student with new and innovative applications of the computer to his/her primary field of study.

2660. Introduction to Business Data Processing/(3).F;S;SS.

A survey of computer processes and equipment. The course includes principles of data processing, computer language, and the application and impact of data processing on business.

3010. Microcomputers in Business/(3).F;S.

A examination of the role of microcomputers in business firms and the managerial issues in data processing shops. Emphasis will be placed on the design, implementation and definition of the role of the microcomputer in the information system, evaluation of hardware and software and the management of micro-information systems.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On demand.

3550. Systems Analysis and Design/(3).F;S.

The role of management in the planning, development, and control of data processing systems. The primary activity of this course will be to prepare and present for discussion case studies in the development of management information systems. Prerequisite: BE 2660 or equivalent.

3650. Production and Operations Management/(3).F;S.

An introduction to the basic functions and concepts involved in managing the production and operations function of an organization. Topics in operations system design, and analysis at the introductory level are included. Prerequisite: MAT 1030 and ECO 2100.

3670. Applications in Business Data Processing/(3).F;S;SS.

A study of the problems encountered in the implementation of business systems. The COBOL language is used in order to complete application type programs. Prerequisite: DS 2660.

3680. Modeling and Simulations/(3).F;S;SS.

A study of data processing systems to satisfy business systems requirements. The techniques of computer based and non-computer based information systems are included. The design of simulation models as they apply to business and economics is studied. Prerequisite: DS 2660.

3690. Advanced Applications in Business Data Processing/(3).F;S.

This course will develop the necessary skills to plan and implement computerized systems requiring both sequential and direct access processing. File organization and the processing of files using the COBOL language will be emphasized. Prerequisite: DS 3670.

3691. Applications in RPG II Programming/(3). On Demand.

A study of the problems encountered in the implementation of business systems. The RPG II language is introduced/taught in order to complete application programs. Prerequisite: DS 3550.

3695. Management of Computer Operations/(3).F;S.

Practical experience with the operation, supervision, and management of a remote computer terminal installation. Student will work in the University Computer Center operations area for 20 hours during the semester. Prerequisite: Approval by instructor.

3900. Internship/(6 or 9).F;S;SS.

A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship with six semester hours granted for a 10-week internship. Students are encouraged to do internships during the summer between their junior and senior years of study. Prerequisites: Full admission to the College of Business, junior or senior standing, and permission of Department Chairperson and Internship Coordinator. Graded on an S/U basis.

*Senior/Graduate Courses***4651. Applied Operations Management/(3).F;S.**

A study and application of quantitative tools of analysis used in production and operations management. Specific topics include decision theory and mathematical modeling, linear programming, queuing theory, network models, inventory analysis, and operations processes. Cases and projects are widely used. Prerequisites: DS 3650 and ECO 3100.

4690. Data-Base Processing/(3).F.

This course introduces the student to the properties, logic, design, implementation, and accessing of business data-bases as contrasted to conven-

tional data file creation and maintenance techniques. particular emphasis is placed upon the CODASYL approach to data-base management and processing, which focuses more on the logical nature of a data-base than its physical characteristics. CODASYL data-base programming assignments are drawn from the fields of business and government. Prerequisite: DS 3670.

4740. Applications for Forecasting Techniques/(3).F.

The study of the behavior of time series (data collected over a period of time) in order to explain past and forecast future events and conditions in business and economics. Major emphasis will be placed on the understanding and application aspects of the statistical techniques. This will be accomplished through heavy usage of canned computer programs. Prerequisite: ECO 3100, or permission of the instructor.

4750. Management Science/(3).F.

An examination of the quantitative techniques applicable in decision-making activities in the organization seeking optimum solutions in the prototype problem area (allocation of resources, inventory, routing, sequencing, queuing, etc.) Topical areas such as mathematical programming (linear, quadratic, integer), inventory models, queuing theory both finite and infinite systems will be covered. Prerequisite DS 3650.

4790. Current Topics in Information/(3).F;S.

Advanced topics in the field of Business Data Processing will be studied. These topics may include but are not limited to Data Communications, Advanced Systems Analysis, Distributed Processing Systems, Micro-processing and/or Business Software Packages. Prerequisite: BE 3550, and 3670 or permission by instructor.

4810. Seminar/(3).On Demand.**4851. Advanced Systems Design/(3).F.**

A continuation of DS 3550. Emphasis will be placed on systems design and implementation of information systems. Projects, including software development, will be assigned for different types of organizations (public and private sector). Prerequisite: DS 3690 or consent of instructor.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Economics (ECO)

Larry Ellis, Acting Chairperson

The objectives of the Department of Economics are:

- 1. to provide the basic institutional and theoretical knowledge required for the understanding of the functioning of the American economy and the world economy and for the understanding and analysis of current economic issues and problems;
- 2. to develop the institutional and theoretical knowledge and analytical abilities necessary to prepare students for careers in business and government as managers and researchers on social and business problems; and
- 3. to prepare students for graduate school and to provide graduate level training and experience for those who seek to become professional economists and/or economic educators.

Bachelor of Science in Business Administration

BSBA majors in the Economics Department must complete (1) the General Education course requirements and ECO 2030, 2040, and 2100; (2) the College of Business core course requirements; and (3) the requirements of the chosen major (listed below).

BSBA in Economics

Economics 3010, 3020 (Intermediate Theory)	6 s.h.
Economics Electives (3000 and above, at least 3 semester hours at the 4000 level)	9 s.h.
College of Business Electives (3000 and above)	9 s.h.

BSBA in Banking

Economics 3010, 3020 (Intermediate Theory)	6 s.h.
Economics 3070, Money and Banking	3 s.h.
Economics 4620, Commercial Bank Mgmt. & Operations	3 s.h.
DS 3670, Applications in Business Data Processing	3 s.h.
FIR 3790, Financial Markets; or FIR 4660, Financial Decision-Making; or FIR 4610, Management of Financial Intermediaries	3 s.h.
College of Business Electives (3000 and above)	6 s.h.

BSBA Double Major in Economics and Banking requires completion of requirements for major in banking and including one Economics course (3000 or above) among the College of Business electives.

BSBA Double Major in Economics and a Functional Area of Business requires careful selection of elective courses so as to satisfy the requirements of both majors.

Bachelor of Arts Degree

The Bachelor of Arts degree with a major in economics is offered in the College of Arts and Sciences in cooperation with the Department of Economics. Students may earn a Bachelor of Arts degree in economics by completing the following requirements in addition to the requirements of the College of Arts and Sciences:

ECO 2030/2040	Principles of Economics	6 s.h.
ECO 3010	Intermediate Price Theory	3 s.h.
ECO 3020	Macroeconomic Analysis	3 s.h.
ECO 2100/3100	Business and Economic Statistics I and II	6 s.h.
	Electives in Economics	12 s.h.
	(3000 and above, at least 6 s.h. at 4000 level)	

TOTAL 30 s.h.

BS in Social Science (with teaching certification) with a Concentration in Economics

For the curriculum for a major in social science with a concentration in economics leading to the Bachelor of Science degree, see the economics department chairperson. For the requirements in teacher education, see the Department of Curriculum and Instruction.

International Economics and Business Options

International economics and business options are available for students pursuing a Bachelor of Arts or a Bachelor of Science in Business Administration with a major in Economics. The program is jointly administered by the Department of Economics and the Department of Foreign Languages. Students participating in the program have an advisor in each department.

The program combines a major in Economics and a major or minor in a Foreign Language. Students are also advised to pursue a minor in International Business. A minimum overall GPA of 2.0 is required for the courses included in the minor.

The various options are as follows:

Bachelor of Arts with a double major in Economics and one
Foreign Language (French or Spanish)

Bachelor of Arts in Economics with a minor in French, German or Spanish.

Bachelor of Science in Business Administration with a major in Economics
and a minor in French, Spanish or German.

Under all three options, the student is expected to demonstrate proficiency (reading and speaking) in the language selected. At least 15 hours of courses in the language, civilization and culture of the chosen country or area is recommended beyond the 1050 level. Also students are expected to participate, if possible, in any one or more of the following programs:

1. Pursue a minor in International Business (15 semester hours);
2. Complete a semester or summer session of Business Study abroad in the country of their choice;
3. Complete an Internship abroad (usually 6 hours).

For further information, students should consult both the Chairperson of the Department of Economics and of the Department of Foreign Languages.

Minor in Economics

(for non-business majors only)

Undergraduate: A minor in economics consists of ECO 2030, 2040, and nine semester hours of economics electives numbered 3000 or above.

Graduate: A graduate student can obtain a graduate minor in economics by completing nine semester hours of economics courses approved by the Chairperson of the Department of Economics.

A minimum overall GPA of 2.0 is required for the courses included in the minor.

Honors Program in Economics

The Department of Economics offers at the sophomore level two Honors Seminar courses (ECO 2510 and 2515) in Principles of Economics, open by invitation only to students who have excellent records on their previous college courses. Any student who has not been invited to participate in these sophomore-level seminars and would like to be considered may contact the department chairperson or the departmental honors advisor.

The department also offers a Senior Honors Research and Thesis course (ECO 4510) open only to majors in economics during their final undergraduate semester and who have an outstanding undergraduate record. A student who wishes to enroll in the Senior Honors Research and Thesis course should contact the department chairperson or the departmental honors advisor and make the necessary arrangements during the first semester of his/her senior year.

In order to graduate "with honors in Economics" or "with highest honors in Economics" a student must successfully complete ECO 4510.

Additional information is provided in the course descriptions of ECO 2510, 2515, and 4510, and may be obtained from the department chairperson, or the departmental honors advisor.

Master of Arts in Economics

A Master of Arts in Economics is available. For more information consult the section on Master of Arts in Economics or the *Graduate Bulletin*.

Courses of Instruction in Economics

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1010. Survey of Current Economic Issues/(3). F;S.

Application of basic economic concepts in the analysis of current issues such as: unemployment, inflation, energy, pollution, poverty, government regulation, etc. Prerequisite: None.

2030. Principles of Economics-Price Theory/(3).F;S;SS.

A brief introduction to the study of economics followed by an in-depth analysis of microeconomics; theories of supply and demand, the price mechanism, income distribution, consumer choice, cost and revenue analysis and the theory of the firm, competition and monopoly and antitrust policy, government spending and taxing, agriculture, labor, and big business in the American economy, and current economic problems such as pollution, population expansion, urbanization, poverty, and discrimination. Prerequisites: None.

2040. Principles of Economics-Macro/(3). F;S;SS.

A brief introduction to the study of economics followed by an in-depth analysis of macroeconomics: the circular flow of the economy, money and banking, national income analysis, business cycles, monetary and fiscal policy, and including an introduction to international trade and finance and international economic issues. Prerequisites: ECO 2030 or permission of instructor.

2100. Business and Economic Statistics I/(3).F;S;SS.

A study of statistical tools used to analyze business and economic problems. The major subject matter includes descriptive statistics, the concepts of probability, confidence intervals and hypothesis testing, and statistical comparison of production and marketing methods. Prerequisites: MAT 1030 or MAT 1020.

2500. Independent Study/(1-4).

2510. Honors Seminar in Principles of Economics-Micro/(3).F. (Substitutes for ECO 2030).

Tutorial instruction in the functioning of a market economy. Topics covered include supply and demand; market; income distribution; production theory; international trade and financial problems. Available to all qualified students. Not limited to students who are planning to major in Economics. Any student who has not been invited to participate in this course and who would like to be considered should contact the Economics Department Chairperson or departmental honors advisor. Prerequisites: None. Open to students by invitation only.

2515. Honors Seminar in Principles of Economics-Macro/(3).S. (Substitute for ECO 2040)

Tutorial instruction in the formulation and execution of economic policy in a modern market

economy. Topics covered include the basic principles of a market economy; the measurement of macroeconomic magnitudes; income determination; fiscal policy, taxation, and government expenditure; the nature, source, and control of money; monetary policy. Available to all qualified students. Not limited to students who are planning to major in Economics. Any student who has not been invited to participate in this course and who would like to be considered should contact the Economics Department Chairperson or departmental honors advisor. Prerequisites: none. Open to students by invitation only.

3010. Intermediate Price Theory/(3).F;S.

An intermediate course in economic theory with emphasis on the theory of consumer behavior, price theory and resource allocation. Prerequisites: ECO 2030, 2040.

3020. Macroeconomic Analysis/(3).F;S.

An intermediate course in economic theory with emphasis on the analysis of the determinants of the nation's income, output, employment, and general price level. Prerequisites: ECO 2030, 2040.

3040. Economic Growth and Development/(3).S.

Acquaints the student with the traditional and contemporary literature on economic growth and development, the history of economic development in advanced and developing countries, alternative strategies in economic development theory and their relevance to domestic economic issues. Prerequisite: ECO 2030 and 2040 or permission of instructor.

3050. Industrial Organization and Public Policy Toward Business/(3).S.

The economics of competition and monopoly including antitrust, regulatory, and other government policies influencing market structure and business performance in the American economy. Prerequisites: ECO 2030, 2040.

3070. Money and Banking/(3).F.

An institutional and theoretical study of the structure and functioning of the central and commercial banking systems in the United States, money and monetary theory, the money and capital markets and financial intermediaries, and monetary policy. Prerequisites: ECO 2030, 2040.

3100. Business and Economic Statistics II/(3).F;S;SS.

Applications of statistical tools to a variety of business and economic situations. These tools in-

clude survey sampling methods, hypothesis testing using analysis of variance, regression and time-series analysis, and non-parametric statistics. Emphasis is placed on computer applications using available programs. Prerequisites: ECO 2030, 2040, 2100.

3410. International Economics/(3).F.

A survey of the theory, development, and practice of the international trade and payments system. Special attention is given to the basic concepts and different mechanisms which have been and are used in international economic affairs, as well as to governmental policies and domestic and international institutions regulating them. Prerequisites: ECO 2030, 2040.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

Topics covered have ranged from mathematical economics to economics of the law. Prerequisite: permission of the instructor.

3900. Internship/(6 or 9).F;S;SS.

A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship with six semester hours granted for a 10-week internship. Students are encouraged to do internships during the summer between their junior and senior years of study. Prerequisites: Full admission to the College of Business or College of Arts and Sciences, junior or senior standing, and permission of Department Chairperson and Internship Coordinator. Graded on an S/U basis.

Senior/Graduate Courses

4510. Senior Honors Research and Thesis/(3).On Demand.

Independent in-depth research and analysis and preparation of a thesis on a significant topic in Economics, directed by a member of the graduate faculty in Economics. A thesis is presented orally and in writing to the Economics Department. Oral examination and grade assigned by the departmental honors committee. Required for graduation "with honors in Economics." A student who completes this course with a grade of B and who

graduates with a GPA of 3.5 in Economics courses will graduate with honors in economics; with a grade of A and a GPA of 3.7 in economics courses a student will graduate "with highest honors in Economics." Prerequisites: GPA of at least 3.5 overall and 3.5 in Economics courses. Approval of proposed research topic and methods by departmental honors committee and assignment of research thesis advisor during the semester prior to enrollment in this course. Open only to majors in Economics during their final undergraduate semester.

4550. Public Finance and Taxation/(3).F.

Economics analysis of government revenues and expenditures, impact of the government budget, shifting and incidence of taxation, public debt, fiscal policies. Prerequisites: ECO 2030, 2040.

4610. Economics of Health Care/(3).S.

Economic theory is applied to the health care industry. Included is an overall perspective of the health care industry, identification of the factors influencing the demand for and the supply of health care; identification of some costs and benefits of health programs, hospital organization and efficiency, and a consideration of alternative methods of financing health care. Prerequisites: ECO 2030, 2040, and 2100.

4620. Commercial Bank Management and Operations/(3).F.

A seminar in applied banking. The student is guided by bankers through an analysis of the major functions of a commercial bank, including operations, loans, asset management, and trusts. Student research project involves interviews with bankers. Prerequisites: ECO 2030, 2040, also ECO 3070 or permission of the instructor.

4630. History of Economic Thought/(3).S.

Origin, development, and analysis of the major trends, contributions, and conflicts in the development of modern economic philosophy, analysis, and theory. Prerequisite: ECO 2030, 2040.

4640. International Economic Policy/(3).S.

A seminar in foreign economic policy issues. Issues such as balance of payment disequilibrium and adjustment, tariff and trade policy, the exchange rate, trade and aid in developing countries, East-West trade restrictions, regulation of multinational corporations, are presented through the most current readings in professional and practitioner's journals. Prerequisite: ECO 3410 or permission.

4710. Managerial Economics/(3).S.

Use of statistical and mathematical concepts and techniques in solving problems in economics. Microeconomic theory is reviewed and optimizing techniques are used in decision making. Prerequisites: ECO 2030, 2040, and 2100 or equivalent.

4720. Labor Economics/(3).S.

An analysis of the labor market including the demand and supply of labor under various market structures. In addition, labor unions and other market constraints are analyzed and the aggregate level of employment is considered. Prerequisites: ECO 2030, 2040.

4740. Applications for Forecasting Techniques/(3).F.

The study of the behavior of time series (data collected over a period of time) in order to explain past and forecast future events and conditions in business and economics. Major emphasis will be placed on the understanding and application rather than the theoretical and computational aspects of the statistical techniques. This will be accomplished through heavy usage of canned computer programs (same as DS 4740). Prerequisite: ECO 3100, or permission of the instructor.

4750: Econometrics/(3).S.

Identification, measurement, and interpretation of demand, production, cost and consumption relationships, including simple and multiple regression analysis of time series and cross sectional data. Prerequisites: ECO 2030, 2040, and 3100 or equivalent.

4800: Urban and Regional Economics/(3).F.

An examination of the institutional background necessary for urban and regional growth. An introduction to theoretical models of growth. Prerequisites: ECO 2030, 2040.

4810. Seminar in Economics/(3).On Demand.

Analysis of selected economic issues and problems. Courses subject to be offered at various times include: economics of state and local government, comparative economic systems, current economic issues, American or European economic history, and others. Prerequisites: Senior standing, ECO 2030, 2040, and permission of the instructor.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Finance, Insurance and Real Estate (FIR)

Harry Davis, Chairperson

The objective of the Department of Finance, Insurance and Real Estate is to develop responsible and successful leaders by providing undergraduate and graduate education in the fields of finance, insurance, and real estate.

A Master of Business Administration (MBA) is available through the College of Business. For more information, see the section on graduate programs.

The Department of Finance, Insurance and Real Estate houses the North Carolina Savings Institution Chair, the Risk and Insurance Center and the Real Estate Research Center.

Bachelor of Science in Business Administration

(with a major in Finance)

A Bachelor of Science in Business Administration degree (BSBA) with a major in Finance consists of 24 hours in addition to the College of Business core courses required for the BSBA degree. Fifteen hours come from the structured finance core, six hours from the finance sub-area, and three hours of electives from college of business courses number 3000 or above.

Finance Core

FIR 3690	Financial Management	3 s.h.
FIR 3790	Financial Markets & Intermediaries	3 s.h.
FIR 3890	Survey of Investments	3 s.h.
FIR 4600	Financial Decision Making	3 s.h.
ACC 3200	Cost Accounting;	
or		
ACC 3100	Intermediate Accounting;	
or		
ACC ----	Any other accounting course with the permission of the chairperson	3 s.h.
TOTAL		15 s.h.

Sub-Area (Take two of the following courses):

FIR 4610	Management of Financial Intermediaries	3 s.h.
FIR 4400	Savings and Loan Management	3 s.h.
FIR 4620	Investment Management	3 s.h.
FIR 4630	Working Capital Management	3 s.h.
FIR 4750	International Business Finance	3 s.h.
TOTAL		6 s.h.

College of Business Electives

College of Business courses numbered 3000 or above

3 s.h.

TOTAL 3 s.h.

Total Hours for BSBA with a major in Finance

24 s.h.

Finance majors are advised to use their three College of Business elective hours in an area such as accounting, decision science, insurance, and real estate. An internship may be elected to provide practical experience, with academic credit, in the field of specialization.

A minor in finance may be obtained by completion of 12 semester hours, consisting of FIR 3680, FIR 3690 and six additional semester hours of electives in finance. A minimum overall GPA of 2.0 is required for the courses included in the minor.

Bachelor of Science in Business Administration

(with a major in Risk and Insurance)

A Bachelor of Science in Business Administration (BSBA) with a major in Risk and Insurance consists of 18 hours in addition to the College of Business core courses required for the BSBA degree. The course requirements for the Risk and Insurance major are: Nine hours from the structured risk and insurance core and six hours from the sub-area.

Risk and Insurance Core

FIR 3071	Principles of Risk Management and Insurance	3 s.h.
FIR 3690	Financial Management	3 s.h.
FIR 3790	Financial Markets and Intermediaries	3 s.h.
FIR 3890	Survey of Investments	3 s.h.

Sub-Area (Take two of the following courses):

FIR 3072	Life and Health Insurance	3 s.h.
FIR 3073	Property and Liability Insurance	3 s.h.
FIR 4576	Insurance in Business and Estate Planning	3 s.h.

Risk and Insurance majors are advised to use their elective hours in areas such as accounting, economics, finance, management, mathematical sciences, law, real estate, and additional risk and insurance courses. An internship may be elected to provide practical experience, with academic credit, in the field of specialization.

A minor in Risk and Insurance may be obtained by completion of nine semester hours, consisting of FIR 3071, FIR 3072, and FIR 3073.

Bachelor of Science in Business Administration

(with a major in Real Estate and Urban Analysis)

A Bachelor of Science in Business Administration (BSBA) with a major in Real Estate and Urban Analysis consists of 18 hours in addition to the College of Business core courses required for the BSBA degree. The course requirements for the Real Estate and Urban Analysis major are 12 hours from the structured Real Estate and Urban Analysis core and six hours from the sub area.

Real Estate and Urban Analysis Core

FIR 3790	Financial Markets and Intermediaries	3 s.h.
FIR 2850	Real Estate Principles and Practices	3 s.h.
FIR 3890	Survey of Investments	3 s.h.
FIR 3940	Real Estate Financial Analysis	3 s.h.

Sub-Area (Take two of the following courses):

FIR 3860	Real Estate Appraisal	3 s.h.
FIR 3950	Real Estate Law	3 s.h.
FIR 4560	Real Estate Investments	3 s.h.
FIR 4704	Property Development Planning	3 s.h.

Real Estate and Urban Analysis majors are advised to use their elective hours in areas such as data processing, statistics, geography, finance, insurance, management, law and economics. An internship may be elected to provide practical experience, with academic credit, in the field of specialization.

The course FIR 2850 is required for a North Carolina Real Estate Salesperson license. Also, students must take FIR 2850, 3940, and 3950 and meet certain other requirements to obtain a North Carolina Brokers license.

A minor in Real Estate and Urban Analysis for non-business majors may be obtained by completion of nine semester hours, consisting of FIR 2850, and six additional semester hours of electives in Real Estate and Urban Analysis. A minimum overall GPA of 2.0 is required for the courses included in the minor.

Courses of Instruction in Finance, Insurance and Real Estate

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

2150. Legal Environment of Business/(3).F;S;SS.

An introduction to the legal process in order to demonstrate its effect on individuals and businessmen. A philosophical and historical background of jurisprudence and of the American legal system is supplied as well as a larger in-depth study of the federal and state court systems. Emphasis is also placed on legislative, administrative and common law, stressing specific topics affecting the businessman, such as contracts, business crimes and torts, government regulations, environmental protection, and the ethical problems confronting businessmen in both the national and international trade settings.

2500. Independent Study/(1-4).F;S;SS.

2850. Real Estate Principles and Practices/(3).F;S;SS.

The economics of real estate, legal instruments, marketing, and management are the subjects covered. Includes valuation, appraisal and entrepreneurship.

2860. Personal Finance/(3).F;S.

A study of the key concepts, tools, and techniques of personal financial management. Focus is placed on the financial statements of the individual. The balance sheet model includes a discussion of personal assets - both financial and non-financial, personal liabilities including all types of loans, and personal net worth. The implications of the current financial environment (i.e., changing tax laws, savings instruments, interest rates, etc.) is also considered from the standpoint of the individual.

3010. Survey of Finance/(3).F;S.

This course is not open to business majors for credit.

An introduction to the field of finance in the private sector. The student is introduced to financial management in the business firm to the principles of investment and valuation, and to financial markets and prices.

3071. Principles of Risk Management and Insurance/(3).F;S;SS.

Covers risk management, general principles of insurance, economic security, individual life insurance, health insurance, social insurance, property insurance and liability insurance. Prerequisite: Admission to the College of Business.

3072. Life and Health Insurance/(3).F;S;SS.

Provides a comprehensive examination of life and health insurance including economic security,

group and individual coverages, life insurance law, mathematics of life insurance, social insurance, pension planning, business insurance and estate planning. Prerequisite: FIR 3071.

3073. Property and Liability Insurance/(3).F;S.

Provides a comprehensive examination of property and liability insurance including personal and commercial property and commercial liability risk management and insurance; the legal environment of property and liability insurance; and property and liability insurance function, practices and issues. Prerequisite: FIR 3071.

3350. International Business Transactions/(3).F;S.

The mechanics of international trade involving private and public law are the essentials for study. Emphasis is on providing the exporter/importer with legal knowledge to facilitate international trade and its related activities. Basic international agreements for trade will be examined, including GATT and its implications for U.S. importers under American law. Legal problems of multinational corporations, technology transfer, and business ethics are also studied. Prerequisite: FIR 2150 or permission of the instructor.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S.

A supervised experience in the instructional process on the university level through direct participation in the classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: Junior or Senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.

3680. Introduction to Finance/(3).F;S;SS.

An introduction to the field of finance in the private sector. The student is introduced to financial management in the business firm to the principles of investment and valuation, and to financial markets and prices. Prerequisite: Admission to the College of Business.

3690. Financial Management/(3).F;S;SS.

Study of financial functions of a business enterprise conducted from the standpoint of the financial manager. Emphasis on analysis, planning, and control; working capital management; capital budgeting; long-term financing; financial structure and valuation; and required return. Prerequisite: FIR 3680.

3790. Financial Markets and Intermediaries/(3).F;S.

An in-depth study of the markets in which savers and borrowers of short and long-term funds come together. Focus is on the supply and demand for funds, the resulting yields and effects on capital formation, and evaluation of market performance. Course coverage will also include an examination of the various intermediaries that operate within financial markets. Prerequisite: FIR 3680.

3860. Real Estate Appraisal/(3).F;S.

Approaches and methods of property valuation. Comparable sales analysis, cost-depreciation analysis, and income capitalization techniques are emphasized. Prerequisite: FIR 2850.

3890. Survey of Investments/(3).F;S.

A survey of investment media and investment goals, with emphasis upon their economic effects and relationships to the private investor. Investments media covered include money-market instruments; government issues, corporate debts issues, preferred and common stock, convertible securities, securities options, real estate, mortgages, commodities, gold, silver, gems, art antiques, coins, stamps, business ventures, investment companies, other financial instructions, and foreign investment. Prerequisite: FIR 3680.

3900. Internship/(6-9).F;S;SS.

A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship. Six semester hours are granted for a 10-week internship which is generally during the summer only. Prerequisite: Admission to the College of Business and permission of the department chairperson. Graded on an S/U basis.

3910. Business Law I/(3).F;S;SS.

A study of selected traditional areas of the law that affect the commercial community. Includes law of contracts, commercial paper, agency, personal property and bailments. Common law concepts are investigated as well as the impact of the Uniform Commercial Code on commercial transactions. The course is designed to give students an awareness of legal problems that may exist in a commercial transaction, and to develop the analytical skills necessary to recognize and seek assistance for such problems. (A special objective of this course is to assist students in preparing for the CPA examination.)

3920. Business Law II/(3).F;S.

Includes real property, estates, sales, security devices, partnerships and corporations, bankruptcy and government regulation of business. Study is devoted to an understanding of the common law, the Uniform Commercial Code and other statutory law as it applies to these areas. Course objectives include aiding the students in becoming aware of special legal problems of business and assisting students in gaining a background for the CPA examination. Prerequisite: FIR 3910.

3940. Real Estate Financial Analysis/(3).F;S.

Real Estate Financial Analysis as applied to various types of property. Includes the underwriting process, sources of funds, portfolio problems, and governmental programs. Money and mortgage market analysis and the use of modern creative finance are emphasized. Prerequisite: FIR 2850.

3950. Real Estate Law/(3).F;S. (Same as BE 3950)

Legal aspects of real property ownership, development, transfer, and brokerage. Prerequisite: FIR 2850.

4400. Savings and Loan Management/(3).SS.

Views the management of the savings and loan association from the perspective of its competitive position with other financial intermediaries, and from the perspective of internal management of savings and loan associations. Prerequisite: FIR 3680.

*Senior/Graduate Courses***4560. Real Estate Investment/(3).F.**

Analysis of real estate investments, using modern tools such as the computer. Current issues as well as analytical methods are presented. Includes financing and income tax considerations. An investment analysis will be required. Prerequisite: FIR 2850.

4576. Insurance in Business and Estate Planning/(3).S.

Covers the orderly and efficient disposition of personal and commercial interests in property, including business insurance and the taxation of estates, gifts and trusts. Prerequisite: FIR 3072.

4610. Management of Financial Intermediaries/(3).F.

A study of the intermediaries who function in the money and capital markets bringing together

savers and borrowers. Emphasis is placed on the competitive structure of the industry and managerial problems of the several institutions. Prerequisite: FIR 3680.

4620. Investment Management/(3);F;S;SS.

A survey of investment media and investment goals, with emphasis upon their economic effects and relationships to the private investor. Traditional (fundamental and technical) and modern (randomized selection and efficient diversification) approaches are used for investment decision making. Prerequisite: FIR 3680.

4630. Working Capital Management/(3).F.

Considers the day-to-day decisions of the financial manager with regards to the firm's working capital position. Topics examined in detail include cash and marketable securities management, accounts receivable management and inventory management. Practical problems and decisions are simulated through use of the case method. Prerequisite: FIR 3680.

4660. Financial Decision Making/(3).F;S.

The capstone study of the application of financial policy. Emphasis is placed on problem solving through the use of cases. This course integrates all financial areas. Prerequisite: FIR 3690.

4704. Property Development Planning/(3).S.

An analysis of the major elements of community growth and their relation to a proposed real estate development. Included is an examination of local, state, and federal development regulations as well as the relationship of the proposed development with several contemporary intra-urban problems such as: Pollution, transportation, public utilities, and the local political environment. Prerequisite: FIR 2850.

4750. International Business Finance/(3).F.

A study of the financial decision-making process of a multinational enterprise when funds are transferred over national borders and from one economy and currency system to another. Prerequisite: admission to the MBA Program; FIR 5005; FIR 5020; FIR 5030.

4810. Seminar/(1-3).On Demand.

4910. Seminar: Hospital and Health Law/(3). On Demand.

This course is designed to provide students with a background in hospital law principles, emphasizing particularly the basis of liability of public and private hospitals.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Management (MGT)

Degree Programs in Management; Health Care Management; Business Education; Marketing Education for Teachers; Office Systems Management; and Restaurant, Hotel and Resort Management.

Dan L. Worrell, Chairperson

The objective of the Department of Management is to develop responsible and successful leaders of organizations by providing quality undergraduate and graduate education (Management, Business Education, Marketing Education for Teachers, and Office Systems Management only).

Bachelor of Science in Business Administration
- Management Major

A Bachelor of Science of Business Administration degree with a major in management may be obtained by completion of the following courses, in addition to the College of Business core courses required for the BSBA degree.

Major in Management

MGT 3620	Personnel Administration	3 s.h.
MGT 3630	Introduction to Organizational Behavior	3 s.h.
DS 4651	Applied Operations Management	3 s.h.
MGT 4700	Organization Theory	3 s.h.
	and one of the following courses:	
MGT 4570	Compensation Administration	3 s.h.
MGT 4630	Labor Relations	3 s.h.
MGT 4770	Social Responsibilities of Management	3 s.h.

In addition to the above requirements, each management major must complete a minimum of 9 semester hours respectively in College of Business courses numbered 3000 or above. Majors in this area are advised to use their elective hours in statistics, finance, economic theory, marketing, accounting, and international business. An internship may be elected to provide practical experience, with academic credit in the management field.

A Master of Business Administration (MBA) degree is available. For more information, refer to either the Graduate Degrees described earlier under College of Business programs, or the Graduate Catalog.

Minor in Management

Students not majoring in the College of Business may earn a minor in Management completing 18 hours in the following areas:

a. Required Courses		
ECO 2030	Principles of Economics - Price Theory	3 s.h.
ACC 2100	Principles of Accounting I	3 s.h.
MGT 3010	Survey of Management	3 s.h.
MGT 3020	Introduction to Personnel Administration	3 s.h.
MGT 3030	Introduction to Small Business Management	3 s.h.
b. and one course from the following:		
ACC 2110	Principles of Accounting II	3 s.h.
ECO 2040	Principles of Economics - Macro	
ECO 2100	Business and Economic Statistics	
FIR 2150	Legal Environment of Business	
DS 2660	Introduction to Business Data Processing	
MKT 3010	Survey of Marketing	
FIR 3010	Survey of Finance	
		18 s.h.

A minimum overall GPA of 2.0 is required for the courses included in the minor.

Courses of Instruction in Management

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1050. Elements of American Business/(2). F;S.

The relationship and responsibility of business to its economics, social and political environment. Available to freshmen only.

2500. Independent Study/(1-4).F;S;SS.

3010. Survey of Management/(3).F;S.

This course is not open to business majors for credit.

An introduction to traditional and contemporary functions and concerns of management, including the history of management; planning, organizing, and controlling; decision-making fundamentals; information systems; motivation, communication, and leadership; international management; and social responsibilities of management.

3020. Introduction to Personnel Administration/(3).F;S.

This course is not open to business majors for credit.

A study of basic personnel policies, practices, objectives, functions and the organization of personnel programs. Emphasis is placed on recruiting, selection, placement, training and development, employee evaluation, compensation, accident prevention, and union management relations in modern business corporations.

3030. Introduction to Small Business Management/(3).S.

This course is not open to business majors for credit.

A study of the unique problems involved in managing a small business in a modern complex economy. The course investigates the role of the small firm in a changing environment, the strengths and weaknesses of small business, and the procedures for starting a new business. Specific attention is given to the uniqueness of the small business in areas such as finance, risk and insurance, personnel, marketing, and government regulation.

3151. Introduction to Management/(3). F;S;SS.

An introduction to traditional and contemporary functions and concerns of management, including

the history of management; planning, organizing and controlling; decision-making fundamentals; information systems motivation, communications, and leadership; international management; and social responsibilities of management. Prerequisite: Admission to the College of Business.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in the classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

3620. Personnel Administration/(3).F;S;SS.

A study of basic personnel policies, practices, objectives, functions and the organization of personnel programs. Emphasis is placed on recruiting, selection, placement, training and development, employee evaluation, compensation, accident prevention, and union management relations in a modern business corporation. Prerequisite: MGT 3151.

3630. Introduction to Organizational Behavior/(3).F;S.

A study of individual and small group behavior in a work setting with focus on how this knowledge is reflected in current management theories. Emphasis is placed on understanding why employees behave the way they do, and how to use this understanding to either maintain or change this behavior. Prerequisite: MM 3151. Management majors are encouraged to take this course before or concurrently with MM 3620.

3800. International Management/(3).S.

International Management studies management as practiced in different nations and cultures. The influences of differences in the political, economic, social, legal, and technological environments on the management functions (planning, organizing, motivating, and controlling) and management effectiveness are examined. The re-

quirements and problems of adapting the American approach to management in foreign cultures; and, conversely, adapting foreign approaches to American businesses will be basic to the course. Also included will be an investigation of management practices world-wide as well as an examination of current issues and special topics. Prerequisite: MGT 3010 or 3151.

3900. Internship/(6 or 9).F;S;SS.

A full-time work experience in business and health care, usually limited to College of Business majors. Nine semester hours of credit are granted for a normal 15-week intership. Six semester hours are granted for a 10-week internship which is usually in the summer only. Prerequisites: Admission to the College of Business, and permission of Department Chairperson and Internship Coordinator. Graded on an S/U basis.

4070. Entrepreneurship/(3).F;S.

A study of the problems and opportunities associated with the initiation and management of innovative business organizations. The course focuses on the unique properties associated with planning, organizing, initiating, and managing an innovative venture. In addition to the functional areas normally associated with small business management, this course addresses entrepreneurship, innovation, and alternative sources of funding. Prerequisites: MGT 3151, MKT 3050, FIR 3680.

Senior/Graduate Courses

4570. Compensation Administration/(3).S.

A study of the economic, legal, psychological and social aspects of employee compensation with consideration given to Federal and N.C. laws; techniques for analyzing, evaluating and pricing jobs. Planning for and administering a total compensation program including incentives and fringe benefits. Prerequisite: MGT 3620 or MGT 3020. (This course may not be taken on an individual study basis.)

4630. Labor Relations/(3).F;S.

A study of labor-management relations with emphasis on management's relations with organized labor. Lecture, discussion and cases are used to study the reasons employees join unions, the laws that apply, and the process of working out a labor contract after it is negotiated. Prerequisite: MGT 3620, MGT 3020 or permission of instructor. (This course may not be taken on an individual study basis.)

4700. Organizational Theory/(3).F;S.

The development and maintenance of organizational effectiveness are studied in terms of environmental effects, systems aspects, communications, structure, and the dynamics of problem solving, goal setting, politics, conflict, and governance. Organizations are treated as behavioral units from the macro perspectives of general managers and organization planners. Prerequisite: MM 3151 or MGT 3010.

4750. Business Policy/(3).F;S;SS.

Comprehensive analysis of administrative policy making from a total organization point of view; use of case analysis and simulation to develop integrative decision skills. Prerequisites: All College of Business core courses. (This course may not be taken on an individual study basis.)

4770. Social Responsibilities of Management/(3).F;S.

A study of the economic, legal, political, and social environment within which business process takes place; how such environment affects the decisions managers must make. Prerequisite: MGT 3151 or MGT 3010.

4810. Seminar/(1-3). On Demand.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Business Education, Office Systems Management and Marketing Education for Teachers (BE)

Sidney W. Eckert, Director

The objectives of this component of the Management Department are (a) to aid students in becoming effective business or distributive education, data processing,

economic and occupational teachers on all educational levels and, (2) to prepare students to become efficient office administrators.

Bachelor of Science Degree in Business Education

(with teacher certification)

BSBE majors in the Department of Business Education and Office Administration must complete (1) the General Education course requirements including EC 2030, EC 2040, and MAT 1030; (2) the College of Business core course requirements with the exception of taking PSY 3302 in lieu of EC 3100; (3) the Professional Education requirements as shown in the Secondary Education Department section; (4) completion of appropriate tests NTE Common and Teaching Area, and demonstrate proficiencies in English, Reading, and Speech; and (5) the requirements of the Business Education major shown below:

BE 2110	Word Processing	3 hrs.
BE 3340	Business Communications	3 hrs.
BE 3380	Administrative Office Systems	3 hrs.
BE 3890	Principles of Occup. Bus. Educ.	3 hrs.
BE 4220	Records Management and Control	3 hrs.
BE 4510	Office Management	3 hrs.
	College of Business electives 3000 or above	7 hrs.

Students seeking certification for teaching shorthand must complete beginning, intermediate, and advanced shorthand at another school; they must then take BE 3150 Advanced Dictation and Transcription at ASU.

Students who have not had 250 hours of relevant business office experience within the last three years need to complete BE 4030 or 3900. The business office experience must be approved by the major area coordinator. Students who wish to qualify for a Vocational Business and Office Certificate must complete, in addition to the foregoing, BE 4610, and 4650; they must also present documentation of having completed at least 250 hours of recent business experience or take BE 3900.

Bachelor of Science Degree in Marketing Education for Teachers

(with teacher certification)

BSME majors must complete (1) the General Education course requirements including EC 2030, EC 2040, and MAT 1030; (2) the College of Business core course requirements with the exception of taking PSY 3302 in lieu of EC 3100; (3) the Professional Education requirements noted in the Curriculum and Instruction Department section; (4) completion of appropriate tests NTE Common and Teaching Area, and

demonstrate proficiencies in English, Reading, and Speech; and (5) the requirements of the Marketing Education for Teachers major as shown below:

BE 1070	Intro. to Distributive Education	2 s.h.
BE 4610	Coord. Tech. and Job Analysis for Voc. Bus. and Dist. Education	3 s.h.
BE 4850	Management of Occup. Educ. Youth Orgns.	3 s.h.
BE 4851	Orgn. and Adm. of a Dist. Educ. Program	3 s.h.
BE 4852	Methods in Distributive Education	3 s.h.
MKT 3210	Retail Management	3 s.h.
MKT 3240	Advertising Management	3 s.h.
College of Business Electives 3000 or above		4 s.h.

Internship BE 3900 may be taken for those students who have not had two years of full-time retail experience. The experience must be approved by the Marketing Education for Teachers educator, the department Internship Coordinator, and the chairperson.

Bachelor of Science Degree in Business Administration - Office Systems Management Major

BSOA majors must complete (1) the General Education course requirements; (2) the College of Business core course requirements, and (3) the requirements of the Office Systems Management major shown below:

BE 2110	Word Processing	3 hrs.
BE 3340	Business Communications	3 hrs.
BE 3380	Administrative Office Systems	3 hrs.
MGT 3620	Personnel Administration	3 hrs.
BE 3820	Records Management and Control	3 hrs.
BE 4510	Office Management	3 hrs.
College of Business electives 3000 or above		6 hrs. *

*Recommended to have six hours in a related area of specialization such as Management, Health Care Management, Informations Systems, etc.

A minor in Office Systems Management requires 15 hours in Office Systems Management courses. The recommended courses are: BE 2110, BE 3340, BE 3380, BE 3820, and BE 4510. A minimum overall GPA of 2.0 is required for the courses included in the minor.

Master of Arts Degree

A Master of Arts in Economics and Business, Teaching is available. Concentrations are available in either Community, Junior and Technical College or Secondary School teaching. For more information, see the graduate catalog.

Courses of Instruction in Business Education, Office Systems Management, and Marketing Education for Teachers

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1021. Introductory Keyboarding/(1).F;S;SS.

A course designed to teach touch keyboarding skills to enable students to more efficiently use computer terminals, microcomputers, information processors, and other typewriter designed keyboards. NOTE: This will be a three-day a week, 6-week course run two times per class period per semester.

1030. Keyboarding/Typewriting/(3).F;S.

Study includes learning to type and set up letters and manuscripts. Orientation and practicum on word processing, data processing, and typewriting keyboards with traditional and electronic functions.

1060. Business Mathematics/(2).F;S;SS.

The fundamental process of mathematics and their application to common business practices. Topics included are trade, merchandising, valuation of assets, payrolls, taxes, insurance, banking, investments, credit, business ownerships and distribution of earnings, and income taxes.

1070. Introduction to Distributive Education/(2).F.

An introductory course to give prospective Distributive-Teacher-Coordinators an over-view of the Distributive Education Program; its history and development, its aims and objectives, and activities of a Distributive Education Program and requirements for persons employed in this field.

1590. Personal Money Management/(3).F;S;SS.

Planning and managing personal finances. Emphasis is placed on controlling expenditures, consumption, emergencies, borrowing, insurance, home ownership, taxes, savings, investing, retirement, and personal estate planning.

2110. Word Processing/(3).F;S;SS.

Study of electronic text editing and transcription activities (advanced applications in storing,

retrieving, editing communications using word processing equipment). Included also are work with on-line systems, general purpose micros, special purpose word processing packages, networking, and advanced application. Prerequisite: BE 1030 or equivalent.

3150. Advanced Dictation and Transcription/(3).S.

Advanced study of shorthand dictation and transcription as applied to office situations. Students may select special areas such as medical, legal, court reporting, educational and law enforcement. Special emphasis is placed on expertise in writing shorthand and transcribing. Prerequisite: BE 2020.

3340. Business Communications/(3).F;S;SS.

Education to develop competence in business communications: effective business organizational reports, letter and memorandum writing, nonverbal communication, and study of research methods, and communication analysis. Course intended primarily for Business majors. Prerequisites: MM 3150 and 3050 or equivalent with permission of instructor.

3380. Administrative Office Systems/(3).F;S.

Electronic office systems and equipment from a management and practical perspective. Course covers: management of computer-based office systems, office systems development/implementation, hardware and software evaluation, selection and practice. Laboratory work in word processing, computer programming for document preparation and reprographics. Prerequisite: BE 2660 or equivalent.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be

on a S/U basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3820. Records Management and Control/(3).S.

Study of the planning, implementation, and maintenance of records management and control programs (creation, distribution, retention, utilization, storage, retrieval, protection, preservation, and final disposition) in organizations in order to reduce costs in handling records and to develop efficient systems and procedures for the storage and retrieval of records at the corporate level, public governmental units: local, state, regional and national levels. Prerequisites: Senior standing and instructor approval.

3895. Organization and Administration of Business Education/(3).S;SS.

Course covers the history and philosophy of business education and its place in secondary school programs. The overall organization and administration of business education as constituted at the secondary level is examined and evaluated. Establishing the curriculum for an effective program is given strong coverage in addition to evaluating and selecting equipment and instructional materials used in various business education courses.

3900. Internship/(6 or 9).F;S;SS.

A full-time work experience in business. Nine semester hours of credit are granted for a normal 15-week internship with six semester hours granted for a 10-week internship. Students are encouraged to do internships during the summer between their junior and senior years of study. Prerequisite: Full admission to the College of Business, junior or senior standing, and permission of Department Chairperson and Internship Coordinator. Graded on an S/U basis.

4030. Cooperative Office Education/(2). On Demand.

Actual work in an office. Group conferences to be arranged. (By permission only.) Prerequisite: BE 1020 or equivalent.

Senior/Graduate Courses

4510. Office Management/(3).F.

Study of the responsibilities, problems and duties of the office manager approached from a manage-

ment viewpoint; study made in managing the modern office from both a traditional and computerized office systems approach; study of administering systems and procedures in office work and expansion of knowledge and techniques used to reduce and control office costs. Prerequisite: BE 3380.

4610. Coordination Techniques and Job Analysis for Vocational Business and Distributive Education/(3).F;SS.

An analysis of the job in which prospective students are placed in a cooperative office and/or distributive education program and methods and techniques of coordinating the work.

4650. Data Processing Applications for Business Teachers/(3).SS.

Provides students with a basic understanding of applied automated integrated office systems. The course focuses on microcomputer and software packages that enable a microcomputer to accomplish various business and business education applications and tasks. The impact of computer technology and electronic information systems in business operations on students studying the business curriculum at the secondary level will be emphasized. Prerequisite: Senior or Graduate standing and introductory data processing/computer course.

4850. Management of Occupational Education Youth Organizations/(3).S.

A study of how to organize and administer youth organizations in occupational businesses and distributive education in order to establish an excellent learning situation.

4851. Organization and Administration of a Distributive Education Program/(3).F.

A study of the philosophy, practices, and procedures used in the organization and administration of an occupational distributive education program.

4852. Methods in Distributive Education/(3).S;SS.

A study of approved methods of teaching distributive education. Prerequisites: SE 3040 and PSY 3302.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Health Care Management (HCM)

Don Dodson, Director

As a major component of the Department of Management, the Health Care Management Program assists in planning and coordinating major programs of study in the management of health care delivery systems. In consultation with an advisor, students may elect a major in health care management leading to the Bachelor of Science in Business Administration degree. Programs may be planned leading to careers in a variety of inpatient, ambulatory and other health care settings, to include general and mental hospitals, primary care facilities, group practices, long term care facilities, public health organizations, health insurance companies, alternative delivery organizations, federal, state and local agencies and other health-related organizations and services.

Health care management is strongly interdisciplinary, reflecting the broad economic and social base of the profession. Courses in health care management available within the College of Business include:

FIR 4910	Hospital and Health Care Law
ECO 4610	Economics of Health Care
ACC 3550	Accounting for Nonprofit Organizations
HCM 3110	Health Care Organization and Administration
HCM 3130	U.S. Health Care System Resources
HCM 3900	Internship in Health Care
HCM 3950	Planning and Marketing Health Care Services
HCM 4440	Health Care Finance
HCM 4450	Health Care Policy
HCM 4460	Management of Health Care Institution Resources
HCM 4560	Issues in Health Care Administration

In addition, many academic departments outside the College of Business offer courses which closely complement the health care management major. These are found especially in the departments of sociology, psychology, biology, political science, health education, anthropology and counselor education and research.

Bachelor of Science in Business Administration - Health Care Management Major

A Bachelor of Science in Business Administration degree with a major in health care management may be obtained by completion of the following courses, in addition to the College of Business core courses required for the BSBA degree.

Major in Health Care Management

HCM 3110	Health Care Organization and Administration	3 s.h.
HCM 3130	U.S. Health Care System Resources	3 s.h.
HCM 3900	Internship in Health Care Management	6 s.h.
HCM 3950	Planning & Marketing Health Care Services	3 s.h.

HCM 4440	Health Care Finance	3 s.h.
HCM 4450	Health Care Policy	3 s.h.
HCM 4460	Management of Health Care Instit. Resources	3 s.h.

Courses of Instruction in Health Care Management

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

3110. Health Care Organization & Administration/(3).F;S.

This course shall focus on the organization and administration of health care services in the U.S. with occasional reference to foreign service systems. The course will examine health system structure and administration at the Federal, state and local level and will also differentiate between public and private sector health care efforts. The course, in addition, is designed to provide an elementary understanding of the various forces which shape the health care system and those issues of relevance to the future of health care.

3130. U.S. Health Care System Resources/(3).F.

This course shall focus on the service and personnel resources which make up the U.S. health care system. Considerable attention shall be devoted to the nature of the various U.S. health care service settings to include detailed presentations on all forms of inpatient, ambulatory, home and community based care. In addition the course will provide an introduction to the various types of health care personnel and their service system functions. Finally the course shall identify new/emerging health care settings and health care personnel.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in the classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On demand.

3900. Internship/(6).F;S;SS.

A full-time work experience in health care management and limited to College of Business

majors. Six semester hours are granted for a 10-week internship during the summer in a health care facility, service or program. Prerequisites: Admission to the College of Business, and permission of Department Chairperson and Internship Coordinator. Additional prerequisites for Health Care Management Majors include: HCM 3100 and 3130. Graded on an S/U basis.

3950. Planning and Marketing Health Care Services/(3).S.

This course shall initially focus on the various methods used in planning for health care services and will then review the Federal comprehensive health planning program in the 1960's and the Health System Agency approach in the 1970's. Concepts of marketing and their application to the health care industry shall be examined. The course shall require the student to participate in a marketing exercise involving an emerging health care setting such as a hospice, health maintenance organization, home health care agency, etc. Prerequisites: HCM 3110, MKT 3050.

4440. Health Care Financing/(3).S.

This course focuses on a variety of public and private third party mechanisms for financing of the treatment of physical and mental illness. A review shall be made of the various trends and constraints associated with each mechanism. Particular attention shall be paid to the developing role of private health insurance and the potentialities of national health insurance. Prerequisites: MGT 3110 and MGT 3130.

4450. Health Care Policy/(3).F.

The course will examine the process by which health care policy is formulated and implemented. Specific examples of major health policy issues will be drawn from Federal and state sectors and will focus on personnel, financing and health care program development. Other critical policy issues to be examined through case studies will include

genetic engineering, organ transplantation and service competition. The impact of health care policy will be examined through site visitation at institutional or program levels. Prerequisites: HCM 3110, 3130, 3950.

4460. Management of Health Care Institution Resources/(3).S.

The course shall involve: (a) review of new and existing health services and institutions within the health care system; (b) familiarization with the micro computer system applications in health care institutions management; (c) review of accounting

methodology and micro computer applications and (d) an extensive series of case histories concerning financial analysis and decision making in traditional and nontraditional health care institutions. Prerequisites: HCM 4440 and FIR 3680.

Senior/Graduate Courses

4560. Issues in Health Care Administration/(2).F.

A examination of topical environmental and managerial issues having current impact on the health care industry, with particular emphasis upon administrative implications.

Restaurant, Hotel and Resort Management (RHRM)

Duane D. Daggett, Director

A Bachelor of Science in Business Administration (BSBA) degree with a major in Restaurant, Hotel and Resort Management (RHRM) consists of 10 courses in addition to the College of Business core courses required for the BSBA degree. An internship is also available. Students enrolled in this program will receive detailed training in business management along with courses designed to provide the theoretical and practical knowledge needed for successful careers in the hospitality industry. A work practicum of 600 hours is also required.

The following courses must be completed in addition to the College of Business core courses.

Major in Restaurant, Hotel and Resort Management

MGT 3620	Personnel Administration	3 s.h.
MGT 4070	Entrepreneurship	3 s.h.
RHM 3000	Survey of the Hospitality Industry	3 s.h.
RHM 3700	Hotel-Motel Operations & Management	3 s.h.
RHM 4810	Seminar	3 s.h.

The 600 clock hours work experience practicum must be completed prior to graduation. (400 hours may be taken as a formal internship for credit—RHM 3900).

In addition to the above required courses, each RHRM major must complete the following courses taught outside the College of Business.

HEC 1202	Meal Management in Introductory Foods	3 s.h.
HEC 2204	Advanced Foods and Consumerism	3 s.h.
HEC 3202	Quantity Food Production I	3 s.h.
HEC 3204	Quantity Good Production II	3 s.h.
LS 4550	Travel and Tourism	3 s.h.

Courses of Instruction in Restaurant, Hotel and Resort Management

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

3000. Survey of the Hospitality Industry/(3).F.

A survey of the history, likely direction, and organizational structure of the hospitality industry and the place of this industry in the local and national economy. Some study of the problems originating in the operation and administration of various segments of the hospitality industry will be introduced.

3500. Independent Study/(1-3).F;S;SS.

3700. Hotel/Resort Operations and Management/(3).S.

A study of the organization and operation of hotels/resorts and of their various departments including front office, food and beverage, housekeeping, security and physical plant. Emphasis on the techniques and tools of management. Prerequisites: RHM 3000, HEC 3202 and MGT 3151 or special permission of the instructor.

3900. Internship/(6-9).F;S;SS.

A full-time work experience in the hospitality industry, usually limited to College of Business ma-

jors. Nine semester hours of credit are granted for a normal 15-week internship. Six semester hours are granted for a 10-week internship which is usually in the summer only. Prerequisites: Admission to the College of Business, and permission of Department Chairperson and Internship Coordinator. Graded on an S/U basis.

Senior/Graduate Courses

4810. Seminar/(3).S.

An integrative and applied hospitality management course allowing students to exercise analytical and decision making skills through projects, cases and simulation exercises. An indepth discussion of critical issues affecting the hospitality industry. Prerequisites: All courses in the College of Business Core (except MGT 4750) RHM 3000, RHM 3700, HEC 3202, MGT 3620 program and at least 400 hours of work experience.

Institute for Rental Management

The Institute for Rental Management of the John A. Walker College of Business is associated with the American Rental Association for the purpose of promoting the professional growth and development of the rental industry and is an administrative subunit of the Management Department. The Institute for Rental Management assists faculty in research relating to the rental industry, develops and administers home-study courses in a certified program for members of the industry, conducts professional development and non-credit training programs, and provides other professional assistance to the rental industry. In addition, for students majoring in the College of Business, a concentration in Rental management is available through the Management Department.

Rental Management Courses

A student who is a major in any one of the Business Administration areas may take courses in Rental Management. These courses are administered by the Management Department through the Institute for Rental Management. The following are suggested in addition to those required for the chosen major:

MGT 3531	Selected Topics: Principles of Rental Management	3 s.h.
MKT 3210	Retail management	3 s.h.

MGT 4070	Entrepreneurship	3 s.h.
MGT 3900	Internship (in Rental Management)	6 s.h.

and any two of the following courses:

IE 3007	Introduction to Power Mechanics	4 s.h.
CMA 2121	Interpersonal Communication	3 s.h.
FIN 3071	Principles of Risk and Insurance	3 s.h.
MKT 3240	Advertising Management	3 s.h.

Department of Marketing (MKT)

The objective of the Department of Marketing is to develop responsible and successful business leaders by providing undergraduate and graduate education in the field of marketing.

Bachelor of Science in Business Administration

(with a major in Marketing)

A Bachelor of Science in Business Administration (BSBA) degree with a major in Marketing consists of 18 hours in addition to the College of Business core courses required for the BSBA degree. Fifteen hours come from the structured Marketing core and three hours from Marketing elective courses.

Marketing Core

MKT 3220	Sales Management	3 s.h.
MKT 3240	Advertising Management	3 s.h.
MKT 4230	Distribution and Transportation Management	3 s.h.
MKT 4250	Marketing Research	3 s.h.
MKT 4610	Consumer Behavior	3 s.h.

One elective chosen from the following:

MKT 3210	Retail Management	3 s.h.
MKT 3230	Industrial Marketing	3 s.h.
MKT 4100	Marketing Management	3 s.h.
MKT 4550	International Marketing	3 s.h.

In addition to the above requirements, each marketing major must complete a minimum of six semester hours respectively in College of Business courses numbered 3000 or above. These elective hours may be in additional marketing courses, accounting, business communications, data processing, management, finance or economic theory. An internship may be elected to provide practical experience, with academic credit, in the marketing field.

Undergraduate Minor in Marketing

A minor in Marketing for non-business majors may be obtained by completing the following 18 hours of requirements with a minimum overall GPA of 2.0 over the courses used to meet minor requirements:

I. Required Courses:

ECO 2030	Principles of Economics - Price Theory	3 s.h.
ACC 2100	Principles of Accounting I	3 s.h.
MKT 3010	Survey of Marketing	3 s.h.

II. One course from the following: 3 s.h.

ACC 2110	Principles of Accounting II
ECO 2100	Business and Economic Statistics
BE 2150	Law and Society
BE 2660	Introduction to Business Data Processing

III. Two courses from the following: 6 s.h.

MKT 3052	Personal Selling
MKT 3239	Survey of Advertising
MKT 4609	Survey of Consumer Behavior
MGT 3030	Introduction to Small Business Management

Total Hours for the Minor in Marketing 18 s.h.

It should be noted that ECO 2030, Principles of Economics - Price Theory can also count for Social Science credit in general education requirements. It is strongly recommended that the 2000 level courses be completed in the Sophomore year. The courses at the 3000 and 4000 level should be taken in the Junior or Senior year after the student has been admitted to one of the degree-granting colleges.

Courses of Instruction in Marketing

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

2500. Independent Study/(1-4).F;S;SS.

3010. Survey of marketing/(3).F;S.

This course is not open to business majors for credit. An introductory study of the marketing process in advanced market economies. Consideration of psychological theories and determinants of buyer behavior. A background in the elements of the marketing mix, the product distribution structure, the price system, and promotional activities. Survey of marketing in special fields. Planning and evaluating the marketing effort. (Prerequisite: ECO 2030).

3050. Principles of Marketing/(3).F;S;SS.

An introductory study of the marketing process in advanced market economies. Consideration of psychological theories and determinants of buyer behavior. A background in the elements of the marketing mix; the product distribution structure, the price system, and promotional activities. Survey of marketing in special fields. Planning and evaluating the marketing effort. Prerequisite: Admission to the College of Business.

3052. Personal Selling/(3).F.

This course is not open to business majors for credit. The principles of salesmanship and their application to sales situations, the economic and psychological motivations underlying customer purchases and product performance as they affect sales of industrial and consumer goods and services.

3210. Retail Management/(3).F;S;SS.

Focus is on operational problems, retail store organization, location analysis, buying, selling, sales promotion, service, and merchandise handling. Case analysis of managerial problems in retailing establishments. Prerequisite: MKT 3050.

3220. Sales Management/(3).S.

Management of sales force: Quantitative techniques and behavioral research applied to planning, organizing, directing, and controlling field sales effort. Prerequisite: MKT 3050.

3230. Industrial marketing/(3).F.

A study of the nature and importance of the industrial market to include classification of industrial products, characteristics and determinants of industrial market demand and applications of marketing strategy of industrial marketing. Prerequisite: MKT 3050.

3239. Survey of Advertising/(3).S.

This course is not open to business majors for credit. Intensive investigation of the field of advertising, to include a review of the history and economics of advertising, research, copy, layout, production, budgeting, organization. Theory and application are stressed. Prerequisite: MKT 3010.

3240. Advertising Management/(3).F;S;SS.

Intensive investigation of the field of advertising, to include a review of the history and economics of advertising, research, copy, layout, production, budgeting, and advertising organization. Theory and application are stressed. Prerequisite: MKT 3050.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in the classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On demand.

3900. Internship/(6-9).F;S;SS.

A full-time work experience in business, usually limited to College of Business majors. Nine semester hours of credit are granted for a normal 15-week internship. Six semester hours are granted for a 10-week internship which is usually in the summer only. Prerequisite: Admission to the College of Business, and permission of Department Chairperson and Internship Coordinator. Graded on an S/U basis.

4100. Marketing Management/(3).S.

An integrated course in marketing, systematically oriented with emphasis on the marketing mix, the formulation of competitive strategies, and special attention to market analysis, marketing information, and sales forecasting. Case analysis is stressed. Prerequisites: MKT 3050 and Senior standing.

4230. Distribution and Transportation Management/(3).F;S;SS.

An analysis of the subsystems of physical distribution including transportation, warehousing, inventory control, material handling, industrial packaging, order processing, and location analysis. Prerequisite: MKT 3050 and ECO 3100.

4250. Marketing Research/(3).F;S.

Techniques involved in the collection, tabulation and analysis of marketing information. The analysis will include experimental design, factorial analysis, and regression analysis. Prerequisites: MKT 3050 and ECO 3100.

*Senior/Graduate Courses***4550. International Marketing/(3).F;S.**

An analysis of cultural, legal, political, and economic factors affecting marketing in world markets. Emphasis is placed upon the differences in life styles, beliefs, attitudes, behaviors, and their influence upon the marketing decisions of the foreign firm. Prerequisites: MKT 3050 and Senior standing.

4609. Survey of Consumer Behavior/(3).S.

This course is not open to business majors for credit.

An examination of the psychological, sociological, and economic theories of buyer behavior. Prerequisite: MKT 3010.

4610. Consumer Behavior/(3).F;S;SS.

An examination of the psychological, sociological, and economic theories of buyer behavior. This is followed by analysis of the major current and classical empirical research studies designed to test the different theories of buyer behavior. Prerequisite: MKT 3050 and ECO 3100 (or its approved alternative).

4810. Seminar/(1-3). On Demand.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

The College of Fine and Applied Arts

Nicholas Erneston, Dean

Noyes C. Long, Assistant Dean

In cooperation with other colleges of the University, the College of Fine and Applied Arts strives:

1. To provide for varied interests, desires, needs, and abilities of students.
2. To provide a liberal education for all Appalachian students.
3. To expand cultural horizons and develop appreciation of ethical and aesthetic values.
4. To prepare students for certain professions.
5. To prepare students for entrance into certain professional schools.
6. To provide sound foundations for students capable and desirous of advanced study.
7. To prepare students for graduate study and research.

Departments

The College of Fine and Applied Arts consists of the following seven departments:

Art	Home Economics
Communication Arts	Industrial Education and Technology
Health Education, Physical	Military Science
Education and Leisure Studies	Music

Degrees Offered

The College of Fine and Applied Arts offers the Bachelor of Arts, the Bachelor of Science, and the Bachelor of Music degrees. In cooperation with the College of Education it offers the Bachelor of Science degree with teacher certification in art, health and physical education, home economics education, industrial education, music (Bachelor of Music in Music Education), and communication arts.

To be admitted to the College of Fine and Applied Arts as a candidate for a baccalaureate degree a student must have:

1. Completed at least 28 semester hours.
2. A grade-point of at least 2.00, which must be maintained.
3. Completed ENG 1000 and 1100.

4. Been accepted by a department in the college as a major in that department.
5. Students moving from the General College to the Degree Granting Department must see the Department Chairperson for the purpose of being assigned a faculty advisor.

A student who is a candidate for a teaching certificate must be admitted to the teacher education program by the chairperson of the Department of Curriculum and Instruction.

Advisement

The College of Fine and Applied Arts considers student advisement one of its most important responsibilities and priorities. Through annual advising seminars for college faculty, we seek to foster a commitment on the faculty advisor's part to render accurate, appropriate, and timely advisement. The college office provides a graduation check for all majors during the semester immediately preceding the student's last semester. We urge all students in our college to avail themselves of this service, as well as that available at the departmental level.

Independent Study

Students intending to pursue independent study in the College of Fine and Applied Arts are reminded of the existence of deadline dates for applying for independent study. For information and details pertaining to independent study procedures established by the college contact the department chairperson or the assistant dean of the college.

Pass-Fail

Students majoring in programs in the College of Fine and Applied Arts are not permitted to take any course on the pass/fail option that is a general education, major, minor, departmental, or professional requirement.

Bachelor of Arts Degree

In order for a student to earn the Bachelor of Arts degree in the College of Fine and Applied Arts, the following requirements must be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.

3. Completion of six semester hours of a second year of foreign language or higher. The Department of Foreign Languages places students at the level at which they are prepared to perform regardless of previously earned units.
4. Completion of a major consisting of 38 to 40 semester hours from one of the departments listed below:

Art

Communication Arts

Students in CMA must have at least a 2.00 grade-point average on all work in the major. Students in Art must have a 2.0 grade-point average in each course in the major. Transfer students must complete at least eight semester hours of work in their major at Appalachian.

Specific requirements for each departmental major preface the list of courses offered by the department.

5. Completion of a minor consisting of 12 to 20 semester hours from a department other than the departments of Leadership and Higher Education, Curriculum and Instruction, and Human Development and Psychological Counseling. Transfer students must complete at least four semester hours in their minor at Appalachian. The choice of a minor should be made under the guidance of the student's advisor.

Specific requirements for each departmental minor preface the list of courses offered by the department.

6. Completion of electives to total 122 semester hours.
7. Completion of residence requirements.
8. Compliance with regulations concerning the settlement of all expense accounts.
9. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

Students pursuing the B.A. degree are advised to refer to the section entitled "Credit Limitations" which apply to that particular degree.

A candidate for the Bachelor of Arts degree may qualify for a teacher's certificate by admission to professional education courses through the Office of Laboratory Experiences and by completing all academic and professional educational requirements for certification.

Bachelor of Science Degree

(without teacher certification)

In order for a student to earn the Bachelor of Science degree in the College of Fine and Applied Arts, the following requirements must be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of the general education requirements.
3. Completion of a major as described by the various departments offering Bachelor of Science programs without teacher certification:

Art	Home Economics
Communication Arts	Industrial Education and
Health Education, Physical Education	Technology
and Leisure Studies	Music

In addition, a student may earn the Bachelor of Science degree in Communications Media. Required is completion of a specified core, plus a concentration selected from one of the following areas:

Media Advertising, Broadcasting, and Public Relations (Communication Arts)
Printing Production Management (Industrial Education and Technology)

The core in the Communications Media degree is required in lieu of a minor in the media advertising, and public relations concentrations. The Printing Production Management and Broadcasting concentrations require a minor.

In conjunction with the colleges of Education and Arts and Sciences, the College of Fine and Applied Arts offers the Bachelor of Science degree in Child Development. Participating departments in the Child Development degree are Curriculum and Instruction with teacher certification (College of Education), Psychology without teacher certification (Arts and Sciences), and Home Economics without teacher certification (Fine and Applied Arts). The degree is housed in the Department of Home Economics. For information regarding degree requirements for these three, refer to the respective department.

Students must have at least a 2.00 grade-point average on all work in the major. Transfer students must complete at least eight semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

Specific requirements for each department major preface the list of courses offered by the department.

4. Completion of a minor consisting of 12 to 20 semester hours (unless otherwise designated) and from a department other than the departments of Leadership and Higher Education, Curriculum and Instruction, and Human Development and Psychological Counseling. (Transfer students must complete at least four semester hours in their minor at Appalachian.) The choice of a minor should be made under the guidance of the student's advisor.

Specific requirements for each departmental minor preface the list of courses offered by the department.

5. Completion of electives to total 122 semester hours.
6. Completion of residence requirements.

7. Compliance with regulations concerning the settlement of all expense accounts.

8. Recommendation of the faculty.

Meeting graduation requirements is the student's responsibility.

Bachelor of Science Degree

(with teacher certification)

For the requirements for the Bachelor of Science degree with teacher certification, refer to that section in the index.

Bachelor of Music

In order for a student to earn the Bachelor of Music degree in the College of Fine and Applied Arts, the following requirements must be met.

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade-point average on all work at Appalachian.
2. Completion of general education requirements.
3. Completion of a major in the following fields:
 - Music Education
 - Music Performance:
 - Church Music
 - Composition and Theory
 - Piano Pedagogy
 - Instrument/Voice
4. A student must have at least a 2.00 grade-point average on all work in the major. Transfer students must complete at least eight semester hours of work in their major at Appalachian and must have at least a 2.00 grade-point average on all work in the major at Appalachian.

Specific requirements for each departmental major preface the list of courses offered by the department.

5. Completion of a 32 semester hour block in education (Music Education majors only).
6. Completion of electives to total 122 semester hours.
7. Completion of residence requirements.
8. Compliance with regulations concerning the settlement of all expense accounts.
9. Recommendation of the faculty.

For the specific requirements for the Bachelor of Music degrees, consult the section dealing with degrees in the section of this catalog which discusses the Department of Music.

Opportunities are available for students to become involved in internships associated with the academic disciplines represented by all the departments in the College of Fine and Applied Arts. These internships provide students with on-the-job experiences in many areas of endeavor, and allow them to earn academic credit which is applicable toward their degree. Students interested in pursuing this valuable educational opportunity should contact either their departmental advisor or the Student Internship Office. Consult the catalog statement which describes the Student Internship Program.

Dual-Degree Engineering Program with Auburn University

A Dual-Degree Program offered in cooperation with Auburn University is designed to give students the opportunity to attend Appalachian State University for three years and Auburn University for two years. This three-two program results in two college degrees.

Study during the first three years would include course work in mathematics and the sciences and also courses chosen to meet ASU's general education requirements. During the last two years, the student is involved in course work in one of the many engineering disciplines at Auburn University.

Upon completion of this three-two program, the graduate is awarded a baccalaureate degree from Appalachian State University and an engineering bachelor's degree from Auburn University. The Dual-Degree Program also contains a provision enabling highly qualified students to obtain a Master's Degree in Engineering after obtaining the liberal arts undergraduate degree.

Dual-Degree candidates from Appalachian State University are eligible to seek any of the following degrees from Auburn University:

- Bachelor of Aerospace Engineering
- Bachelor of Aviation Management
- Bachelor of Chemical Engineering
- Bachelor of Civil Engineering
- Bachelor of Electrical Engineering
- Bachelor of Industrial Engineering
- Bachelor of Materials Engineering
- Bachelor of Mechanical Engineering
- Bachelor of Textile Chemistry
- Bachelor of Textile Engineering
- Bachelor of Textile Management

For additional information contact Donald W. Sink, Assistant Dean, College of Arts and Sciences.

Department of Art (ART)

Marianne Stevens Suggs, Chairperson

The purposes of the Department of Art are (1) to provide instruction and to promote co-curricular activities which prepare students for professional careers in the visual arts such as teaching or graphic design, and in arts related fields such as arts management or gallery work; (2) to provide instruction and training in the intellectual and technical skills necessary for studio art production; (3) to promote informed understanding of the value of art and design in contemporary and in historical cultures; (4) to cultivate students abilities to think creatively and critically when both producing and responding to visual art; (5) to provide instruction and co-curricular activities in the visual arts as a component of the humanities program; and (6) to contribute creative activities and scholarship to the University community and to society in general.

A Bachelor of Science degree in Art Education (K-12) (with teacher certification) consists of 51 semester hours which includes ART 1000, 1001, 1002, 1003, 2000, 2002 or 2003, 2004, 2005, 2006, 2007, 2008 or 2009, 3002, 3421, 3422, 4421, 4422 and two semester hours of independent study or Art electives (approved by chairperson) and one of the following areas of specialization: ART 2001, 3000, 4000; or ART 2002 or 2003, 3001, 4571; or ART 3003, 3004, 4560. Students seeking specialization in constructive design must complete ART 2008 and 2009 with a minimum of six semester hours to be taken from ART 3005, 3012, 4004, and 4008. In addition the art major must satisfy specified professional education requirements. For the requirements leading to K-12 special certification, see the Department of Curriculum and Instruction.

A Bachelor of Science degree in Commercial Art with a concentration in Graphic Design consists of 48-52 semester hours which includes ART 1000, 1001, 1002, 1003, 2006, 2015, 2017, 3010 and 4-6 semester hours in any other studio area. In addition, the student must complete nine semester hours in Art History to be selected from among ART 2004, 3002, 4552, or other courses offered on occasion as selected topics in Art History (for example, Asian Art, Women Artists, History of Photography, History of Design, etc.); and 5-7 semester hours in the Media Option to be selected from among IET 1001, 1002, 2803, 3042, 4551, and CI 4760, 4830, 4840. It is recommended that the minor (12-18 s.h.) be met in Management, Marketing, Industrial Technology, Communication Arts or Computer Science.

A Bachelor of Science degree in Commercial Art with a concentration in Art Marketing and Production consists of: ART 1000, 1001, 1002, 1003, 2006, 4008, 4900 (8 semester hours), and IET 3530 (Room Planning). In addition, six-seven s.h. from ART 2004, 3002, 4002, 4007, 4552 and eight s.h. from ART 2000, 2002 or 2003, 2005 or 3003, 2007, 2008, 2009, 2017. An additional five-six s.h. in art above the 2000 level are required. CMA 1100 is required. A minor in management or marketing is recommended.

A major in art leading to the Bachelor of Arts degree consists of 40 semester hours, including ART 1000, 1001, 1002, 1003, 2000, 2002 or 2003, 2004, 2005, 2006, 3002, 4002, 4007; and a minimum of eight semester hours from one of the following

areas of specialization: ART 2001, 3000, 4000; or ART 2002 or 2003, 3001, 4571; or ART 3003, 3004, 4560. Students seeking specialization in constructive design must complete ART 2007, 2008, and 2009, with a minimum of two semester hours from ART 3012, 3005, 4004, 4008. The art major must also take two semester hours of art electives. Six hours are required of a second year foreign language. A minor of 12-18 s.h. is required.

Courses stipulated as prerequisites for subsequent art courses must be successfully completed with a grade of "C" (2.00) or higher before a student may continue on to the next level of coursework.

Students wishing to transfer art studio credits will be expected to submit a representative portfolio (slides) of work and transcript for review by the department chairperson. Approval of transfer credits must be completed prior to registration. Students planning to register for a Fall Semester should submit their portfolio and transcript during freshmen or transfer orientation. Those planning to enter for a Spring Semester should submit their portfolio and transcript by December 1. Students planning to register for Summer Term(s) should submit their portfolio and transcript by May 1. Particularized information concerning these procedures can be obtained by writing the chairperson.

The Art Department requires that each senior art major participate in an exhibit, with other seniors, of new work during their final spring semester at Appalachian State University. The dates of this exhibit will be established one year in advance. Participation in this exhibit is a departmentally recognized requirement for graduation.

A minor in art consists of 16 semester hours including ART 1001, 1002, and 1003 and a remainder of eight semester hours to be taken through consultation with and approval by the chairperson. ART 2011, 2016, 4550, and 4551 are not approved for completing requirements for an art major, minor, or concentration.

The Department of Art offers the Master of Arts in Art Education with concentrations in Community, Junior and Technical College Teacher and Art Teacher (K-12 certification). Persons interested in any of these degree programs are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Art

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1000. Equipment and Materials/(2).F;S;SS.

A study of equipment and materials necessary in the production of art. Study and use of hand and power tools, materials and processes as related to diverse studio needs. Lecture and studio four hours.

1001. Foundations I/(3). F;S;SS.

First half of basic studio problems in the visual arts. Basic introduction to the structural elements of art and an exploration of the organizational principles with emphasis on two-dimensional space. Structural analysis of selected examples of the visual

arts will be included toward the development of a critical approach. Students are advised to complete Foundations I and II with the various faculty involved. Lecture and studio 6 hours.

1002. Foundations II/(3).F;S;SS.

Second half of basic studio problems in the visual arts. In depth work with the structural elements of art including color and an exploration of the organizational principles with an emphasis on three-dimensional space. Structural analysis of selected examples of the visual arts will be included toward the development of a critical approach. Students are advised to complete Foundations I and II with the various faculty involved. Prerequisite: Art 1001. Lecture and studio 6 hours.

1003. Foundations III/(2). F;S;SS.

Introduction to the drawing experience with emphasis on developing eye-hand coordination through improvisational, perceptual, and conceptual experiences. Exploration will be directed toward establishing a dialogue among artistic surface and media. Should be taken concurrently with Art 1001. Lecture and studio 4 hours.

2000. Painting/(2).F;S.

Basic course in handling of a variety of painting media and the exploration of pictorial solutions. Prerequisites: ART 1000, 1001, 1002, and 1003. Lecture and studio four hours.

2001. Painting/(2).S.

Intermediate studies with a variety of media. Prerequisite: ART 2000. Lecture and studio four hours.

2002. Sculpture/(2).F.

An introduction to sculptural ideas and concepts with emphasis on modeling and casting. Prerequisites: ART 1000, 1001, 1002, and 1003. Lecture and studio four hours.

2003. Sculpture/(2).S.

An introduction to constructive and subtractive processes. Prerequisites: Art 1000, 1001, 1002, and 1003. Lecture and studio four hours.

2004. Ancient Through Renaissance Art/(3).F.

A survey of painting, sculpture, and architecture from prehistoric times through the sixteenth century. Sophomore standing or consent of instructor. Lecture three hours.

2005. Beginning Printmaking/(2).F;S.

A general introduction to and involvement with basic printmaking techniques and processes. Emphasis on an in-depth study and application of

relief and intaglio printing, along with careful investigation of image source and development. Prerequisites: ART 1000, 1001, 1002, and 1003. Lecture and studio four hours.

2006. Drawing/(3).F;S.

Involvement with a variety of drawing concepts and media. Work from the human figure, landscape, still life. Prerequisites: ART 1000, 1001, 1002, and 1003. Lecture and studio six hours.

2007. Constructive Design (Clay)/(2).F;S.

An introduction to clay and clay bodies through constructive techniques, emphasizing form and design. Prerequisites: ART 1000, 1001, 1002, and 1003. Lecture and studio four hours.

2008. Constructive Design (Fibers)/(2).F;S.

Basic skills in fiber construction with emphasis on design development. Prerequisites: ART 1000, 1001, 1002, and 1003. Lecture and studio four hours.

2009. Alloys/(2).F.

Introduction to alloys and related media through the synthesis of aesthetic concepts and skills. Prerequisites: ART 1000, 1001, and 1002. Lecture and studio four hours.

2011. Art Introduction/(3).F;S;SS.

Analysis of selected examples of architecture, sculpture, painting, crafts, and industrial design in relation to their historic time and need. Three hours lecture.

2012. Humanities—Music, Art, and Ideas I/(3).F.

A course which concentrates on the interplay of art, music, philosophy and religion in the ancient through medieval cultures and their influences as manifested in other centuries.

2013. Humanities—Music, Art, and Ideas II/(3).S.

A course which concentrates on the interplay of art, music, philosophy and religion in contemporary culture.

2015. Photographic Design I/(2).F.;S.

Fundamentals of photographic design are investigated using student-made pinhole cameras with emphasis on aesthetic images. Prerequisites: ART 1001. Lecture and studio four hours.

2016. Studio For Non-Art Majors/(2).S.

Studio course for the non-art major wishing to pursue the art experiences in varied studio areas (painting, sculpture, printmaking, etc.). Course

may be repeated barring duplication of experiences. May be offered on a satisfactory/failure basis. No prerequisites. Lecture and studio four hours.

2017. Graphic Design I/(2).F;S.

Fundamentals of graphic design with an introduction to layout design, color, and typography as they relate to modern graphic problems. Prerequisites: ART 1001, 1002, and 1003. Lecture and studio four hours.

2500. Independent Study/(1-4).F;S;SS.

Majors in art may broaden and intensify their program through individual research and involvement in a given area of art. Prerequisite: Permission of department chairperson.

3000. Painting/(3).F.

Advanced problems in painting with emphasis on the human figure. Individual experimentation and expression stressed. Prerequisites: ART 2001 and 2006. Lecture and studio six hours.

3001. Sculpture/(3).S.

Intermediate exploration into theories of structuring sculptural form through advanced skills and processes. Emphasis on in-depth individual exploration in selected areas. Prerequisite: ART 2002 and 2003. Lecture and studio six hours.

3002. Baroque Through Modern Art/(3).F;S.

A survey of painting, sculpture, and architecture from the seventeenth through the twentieth century. Lecture three hours.

3003. Printmaking/(2).F;S.

Basic serigraphy processes with emphasis on technical understanding and resolved pictorial statements. Prerequisites: ART 2006. Lecture and studio four hours.

3004. Printmaking/(3).F.

Involvement with the intaglio processes with emphasis on thorough technical understanding and resolved pictorial statements. To be offered alternate Fall semesters beginning 1978. Prerequisites: ART 2005 and 2006. Lecture and studio six hours.

3005. Constructive Design (Alloys)/(2).S.

Advanced concentration in specific alloys with emphasis on in-depth exploration in alloys emphasizing individual aesthetic statements. Prerequisite: ART 2009. Lecture and studio four hours.

3006. Interdisciplinary Arts Education/(1).F.

Involvement with concepts from interdisciplinary arts using direct experiences. Prerequisite: CI

2021. Two hours laboratory. Should be taken concurrently with CI 3150.

3010. Graphic Design II/(2).F;S.

A concentration in the study of typography. Course includes a survey of major typographical trends, analysis of letterforms, hot and cold type methods, use of type in layout design. Prerequisites: ART 1001, 1002, and 1003. Lecture and studio four hours.

3011. Graphic Design III/(2).F;S.

A wide range of design problems with emphasis on the development of conceptual and technical skills. Prerequisites: ART 1000, 2006, and 2017. Lecture and studio four hours.

3012. Constructive Design (Fibers)/(2).S.

Constructive design in fibers with advanced exploration of techniques. Prerequisite: ART 2008. Lecture and studio four hours.

3013. Introduction to New York/Washington Art Scene/(1).F;S.

The ASU-NY Loft and/or the Appalachian House in Washington are bases from which visiting groups of students will experience the art museums and galleries in each city. Trips to these cities, organized by art faculty, allow students to gain one semester hour credit. Individual projects are assigned by the instructor leading each trip. May be repeated for a total of three hours credit.

3421. Art Education: Professional Survey/(3).S.

To be taken concurrently with Art 3422. A study of the field of art education and art teaching in areas such as public schools, community and adult education program, art therapy situations, museums, early learning centers, and other alternative sites. Recommended to be taken concurrently with ART 3422.

3422. Art Education: Pre-School Through Age 12/(3).S.

Art teaching-learning for children in public schools and for non-traditional groups of equivalent ages, needs, abilities, interests. Experiences include philosophical approaches, curricula preparation, concepts, interdisciplinary content, and practicum experiences in the public schools and other relevant situations. Two hours per week lecture. Laboratory will focus on translating foundation studio experiences into appropriate aesthetic experiences for children. Recommended to be taken concurrently with ART 3421. Prerequisites: 1000, 1001, 1002, 1003, and two beginning studio courses. Prerequisites may be waived for non-

certification students with permission of the instructor.

3500. Independent Study/(1-4).F;S;SS.

Majors in art may broaden and intensify their program through individual research and involvement in a given area of art. Prerequisite: permission of the department chairperson.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-3). On Demand.

4000. Painting/(3).S.

Advanced painting emphasizing the solution of visual problems conceived by the individual student, under instructor supervision. Prerequisites: ART 2006. Lecture and studio six hours.

4002. Art as Visual Language/(3).S.

A course in art criticism where techniques of analysis are approached through readings and demonstrations. Major emphasis will be placed upon interpretation and the developing of a critical approach. Prerequisites: ART 2004 or 3002 or consent of instructor. Lecture three hours. Offered alternate spring semesters beginning 1979.

4004. Constructive Design (Clay)/(2).S.

Constructive Design in clay using advanced techniques on the wheel, emphasizing form and design. Prerequisite: ART 2007. Lecture and studio four hours.

4007. Seminar/(2).S.

A special course offering based upon faculty and student interest in advanced studies in art, art history, art education, research and interdisciplinary art. Courses may be repeated barring duplication of content. Times to be arranged. Prerequisite: permission of the department chairperson.

4008. Practicum of the Artisan/(2).S.

Understanding of theoretical and practical issues encountered by the artisan. Prerequisite: two-four semester hours above 2000 level or permission of the instructor.

4009. Graphic Design IV/(3).F;S.

Advanced graphic design problems combining experimentation with practical limitations applicable to mass reproduction techniques. Prerequisites: ART 3010 and 3011. Lecture and studio six hours.

4011. Senior Portfolio/(2).F;S.

Graphic design students may further their design study for additional portfolio work. Each student is responsible for the development and completion of specific design problems, resulting in a possible class exhibition with faculty jurying the work. Prerequisites: Art 3010 and 3011. Lecture and studio four hours.

4421. Art Education: Age 13 Through Adulthood/(3).F.

Recommended to be taken concurrently with ART 4422. Art teaching-learning for teenagers through adults for public schools and on-traditional groups, stressing personal development, concepts, environmental influences, and interdisciplinary relationships. Practicum experiences in middle school, high school, and relevant alternate sites. Prerequisites: ART 3421 and ART 3422. Prerequisites may be waived for non-certification students with permission of the instructor.

4422. Art Education: Curriculum and Professional Preparation/(3).F.

Curriculum study for the public school art teacher and the non-traditional teaching situation based upon an examination of the broader goals of art education. For the teacher certification major, prerequisites are ART 3421 and 3422. Recommended to be taken concurrently with ART 4421. Prerequisites may be waived for non-certification students with permission of the instructor.

Senior/Graduate Courses

4550. Art Education Workshop/(2).SS. On Demand.

An intensive two week course devoted to art instruction in grades one through twelve, including the correlation of art with teaching at all levels. Art materials and supplies for grade levels are examined. Each student pays for materials used, and all articles made by the student become the student's property. Lecture and studio four hours.

4551. Workshop in Studio/(2).SS. On Demand.

An intensive two week course to be offered in selected media: i.e., painting, sculpture, print-making, etc. Not for the art major. Lecture and studio four hours.

4552. American Art History/(3).S.

To acquaint the student with the evolution of art in the United States from colonial times until the present. Offered in odd years. Lecture three hours.

4553. Photographic Art Reproduction/(1). On Demand.

Basic instruction in taking, developing, and printing both slides and prints of art work for portfolio for educational purposes. Prerequisites: Art 1001, 1002, and 1003.

4554. Fibers/(3).S.

Advanced study in fiber construction with emphasis on in-depth individual exploration in one area of fiber concern. Prerequisites: Art 3012. Lecture and studio six semester hours.

4557. Constructive Design (Clay)/(2).S.

Advanced study in clay techniques including in-depth individual exploration in one area of concentration, with strong emphasis on form and design. Prerequisite: ART 4004. Lecture and studio four hours.

4560. Lithography/(3).F.

The basic chemistry and related techniques of lithography with emphasis on technical under-

standing and resolved pictorial statements. Offered odd years. Prerequisite: ART 2006. Lecture and studio six hours.

4561. Photographic Design II/(2).F;S.

Introduction to 35mm photography with emphasis on aesthetic image manipulation, darkroom procedures and techniques, and conceptual problem development. Prerequisites: ART 2015, or instructor approval prior to registration. Lecture and studio four hours.

4571. Sculpture/(3).S.

Advanced study in sculpture with emphasis on in-depth individual exploration in one area of technical concern. Prerequisite: ART 3001. Lecture and studio six hours.

4900. Internship: Field Experience/(3-12).SS.

An on-the-job experience with artists, museums, galleries, and businesses related to the promotion of art professions. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Communication Arts (CMA)

Charles E. Porterfield, Chairperson

The objectives of the Department of Communication Arts are to prepare those who are planning careers as teachers in the areas of speech communication or theatre; to prepare those interested in a career in broadcasting and public relations; to provide a broad background of information and develop speech skills needed by those students planning to enter other professions; to provide for the University and community the cultural influence and entertainment of good theatre, debates and discussions of current issues, and the informative and entertaining programs of radio.

The Department of Communication Arts offers a diversified series of courses in the areas of drama, speech communication, radio and television broadcasting, journalism, public relations, and oral interpretation. The department supports co-curricular programs including competitive intercollegiate forensics, the University Theatre, and the ASU radio station, WASU-FM. Also, the department actively supports student organizations which are related to speech, such as the American Theatre Student

League, Alpha Psi Omega Dramatics Society, Forensics Union, Alpha Epsilon Rho, and Pi Kappa Delta Forensics Society. Communications Arts majors are expected to participate in dramatics, forensics, and broadcasting activities.

A minor in Communication Arts consists of 14 semester hours above the 1000 level selected in consultation with and approval of the chairperson.

The Department of Communication Arts offers a program which permits a major to acquire a degree in Communications Arts and qualify for entrance into the MBA program in the College of Business. For information on this program see the department chairperson.

The Bachelor of Arts degree in Speech consists of 39 semester hours above the 1000 level. This must include: CMA 2101, 2102, 2106, 2110, 2406, 3105, 3109, 3110, 3111, 3152, 3155, 3406, 4180, 4182, 4406; and SOC 3750. A minor of 12-18 s.h. is required and also six semester hours of a second year foreign language or higher.

The Bachelor of Arts degree in Theatre consists of 38 semester hours above the 1000 level. This must include CMA 2102, 2200, 2201, 2202, 2203, 2205, 2208, 2210, 2212, 3202, 3210, 3212; and a minimum of 8 s.h. from: CMA 2256, 2406, 3203, 3208, 3209, 3220, 3230, 3256, 3406, 4202, 4203, 4256. In addition students should take PE 1028 or 1030 as a General Education requirement. A minor of 12-18 s.h. is required and six semester hours of a second year foreign language or higher.

The Bachelor of Science degree in Speech Teaching with a concentration in Speech Communication (K-12) consists of 50 semester hours above the 1000 level. This must include: CMA 2101, 2102, 2106, 2110, 2203, 2208, 2316, 2406, 3105, 3109, 3110, 3111, 3155, 3202, 3316, 3406, 4175, 4180, 4182 and 4256. For the requirements in teacher education, see the Department of Curriculum and Instruction.

The Bachelor of Science degree in Speech Teaching with a concentration in Theatre Arts (K-12) consists of 56 hours above the 1000 level. This must include CMA 2102, 2106, 2200, 2201, 2202, 2203, 2205, 2208, 2210, 2212, 3202, 3203, 3209, 3210, 3212, 3220, 3230, 3320, 3406, 4202, 4203, and 4256. In addition, students are required to take CMA 2406 and either PE 1028 or PE 1030 as a General Education Requirement. For the requirements in teacher education, see the Department of Curriculum and Instruction.

The Bachelor of Science degree in Communications Media with a concentration in Broadcasting consists of 45-46 hours which must include the following: CMA 2101, 2102, 2300, 2305, 2316, 2600, 3155, 3300, 3301, 3316, 4315, 4316, ART 3530 (Visual Communications), IET 2803, and 5-6 s.h. from the following: CMA 2302, 2309, 2612, 4300, CI 4840. A minor is required.

The Bachelor of Science degree in Communications Media with a concentration in Media Advertising consists of a core curriculum of 12 semester hours. The core consists of CMA 2300, 2305, 2600 and IET 1001 or IET 1002. In addition to this core, 43 semester hours are required. Included must be: MKT 3010, 3239, 4609, PSY 4551,

three semester hours approved by department chairperson, CMA 1100, 2110, 2316, 3155, 3301, 3316, 4180, 4315, ART 1001, and ART 1002. The 12 semester hour core is required in lieu of a minor. In addition, students are required to take ECO 2030 and PSY 2201 as general education requirements.

The Bachelor of Science degree in Communications Media with a concentration in Public Relations consists of a core curriculum of 13 semester hours. The core consists of CMA 2300, 2305, ART 1001, IET 1002. In addition to this core, 46 semester hours are required. Included must be MKT 3010, 3239, CI 4740 or IET 1022, ENG 3100, CMA 2101, 2106, 2110, 2600, 2610, 3110, 3155, 3300, 3301, 3318, 3320, 3600, 4318. The 13 hour core is required in lieu of a minor. In addition, students are required to take ECO 2030 as a General Education requirement.

Courses of Instruction in Communication Arts

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1100. Introduction to Speech Communication/(2).F;S;SS.

Introduction to the theory and practice of speech communication. A grade of C or higher in this course fulfills the speech proficiency requirement for teaching majors.

2011. Introduction to Theatre/(3).F;S;SS.

A nontechnical course for students with little or no theatrical background. A survey of all phases of theatre.

2101. Public Speaking/(2).F;S;SS.

Intensive practice in composition and delivery of various types of speeches with emphasis on speech structure and style.

2102. Voice and Diction/(2).F;S;SS.

Instruction and practice in voice production and articulation; analysis of regional speech differences and standards.

2106. Argumentation and Advocacy/(3).F.

Study of the theory of argumentation including the reasoning process; the use, discovery, and evaluation of evidence; refutation; advocacy situation analysis and adaptation. Practice in speaking in a variety of advocacy situations and types.

2110. Introduction to Nonverbal Communication/(2).F;S;SS.

An introduction to nonverbal behavior as a form of communication, with emphasis upon nonverbal

communication in the classroom, in the business world, and in general interpersonal relations. Examination will be made of such areas of nonverbal behavior as kinesics (body language), haptics (communication through touch), proxemics (use of space and communication), paralinguistics (vocal cues in communication), and nonverbal factors in communication between variant ethnic groups and cultures.

2115. Speech Activity/(1).F;S;SS.

Participation in activities of the Forensic Union or other projects approved by the department. The student will contract with the appropriate staff member for the activities of this course. May count four (4) hours toward graduation.

2121. Interpersonal Communication/(3).F;S.

Study and application of basic communication concepts to interactive communication situations and problems. Students will be involved in various activities pertinent to understanding these concepts.

2200. Theatrical Costume/(2).F.

Introduction to the theory and practice of theatrical costume including costume design, construction, organization, and maintenance. Work will include the practical application of theory to performance during the semester. One hour lecture, two hours laboratory. Prerequisite: CMA 2205.

2201. Stage Make-up/(1).S.

The theory and practice of theatrical make-up design, and application of make-up theory on performances during the semester. Two hours laboratory.

2202. Mime and Stage Movement/(1).F.

A study of mime as an art form, a performance technique, and a means of self-expression; the study of stage movement as an element of performance; an introduction to stage combat technique. Two hours laboratory.

2203. Introduction to Acting Techniques/(3).F.

A basic course in voice, movement, and script analysis for the stage. Emphasis is on establishing the individual's command of performance fundamentals. Two hours lecture, two hours lab.

2205. Introduction to Theatrical Design/(3).F;S.

An introduction to theatrical production as a collaborative art including an exploration of the common bases for the various areas of theatrical design and methods of graphic communication used by the designers.

2208. Stagecraft/(3).F;S.

Introduction to the techniques used in constructing stage scenery. Includes units on use of tools, hardware, types of scenery, painting, and basic lighting.

2210. Stage Lighting/(3).F;S.

Introduction to the use of stage lighting instruments and control. Includes units on instruments, lighting design, and control. Prerequisites: CMA 2205, 2208. Two hours lecture, two hours lab.

2212. Survey of Dramatic Literature/(3).S.

The study of selected plays from the classical period to the rise of realism in terms of their literary and production qualities.

2215. Theatre Activity/(1).F;S;SS.

Participation in theatre activities. Students will contract to act or work in necessary technical and management areas for the particular plays done during the semester. Maximum of four hours may apply toward graduation.

2256. Children's Theatre/(3).S.

Techniques of performance for a child audience. Participation in a production touring to local schools during the term. Prerequisite: permission of instructor.

2300. Introduction to Mass Communications/(3).F;S;SS.

Study of the forms of mass communication including newspaper, magazine, radio, television, books, and film.

2302. Broadcast Performance Techniques/(3).F;S.

A study and application of specific performance techniques (i.e., voice, body, manuscript usage, personality) related to the broadcast industry. Students will experience a variety of radio and television performance and announcing situations directed towards improving their general broadcasting performance skills. Prerequisite: CMA 2102.

2303. Acting for Non-Theatre Majors/(2).F;S.

A basic course in the fundamentals of acting for the stage. Emphasis is on expansion of the individuals awareness and use of relaxation, concentration, body, voice, and imagination through theatre games and improvisation. One hour lecture, two hours lab.

2305. Law and Ethics of Communication Media/(3).F;S;SS.

A study of the legal sanctions and constitutional freedoms affecting the communications media. Consideration is given to the principles of professional ethics and social responsibility of the mass communicator.

2309. Scenic Technology for Broadcasters/(3).F;S.

A course designed to introduce broadcasting students to basic scenic and lighting techniques used in the television studio. Students receive practical experience by working in the TV area.

2315. Mass Communication Activity/(1).F;S;SS.

Participation in broadcasting or journalism activity. Students will contract with the appropriate faculty member to work in radio, TV, or journalism. Maximum of four hours may be applied to graduation.

2316. Radio Production/(3).F;S;SS.

Radio broadcast procedures; program types and standards; social and programming aspects; laboratory practice in radio, use of facilities of radio station WASU-FM.

2406. Oral Interpretation/(3).F;S.

A study of literature through performance. Emphasis on compiling and reading aloud poetry and short story programs.

2500. Independent Study/(1-2).F;S;SS.**2600. Introduction to Journalism/(2).F;S;SS.**

Introduction to news gathering, writing, and editing processes.

2610. Print Newswriting/(2).F;S;SS.

Study of news writing for newspapers and magazines. Emphasis on techniques of interviewing, newsgathering, news writing, and typing news stories. Prerequisite: Reasonable typing skill, CMA 2600 or the consent of the instructor.

2612. Broadcast News Writing/(2).F;S.

Study of news gathering and news writing for radio and television. Emphasis on techniques of interviewing, news gathering, news writing and preparing broadcast news stories. Prerequisite: reasonable typing skill; CMA 2600 or the consent of the instructor.

3105. Ethics and Freedom of Speech/(2).S.

An examination of theories of ethics of persuasion; an examination of theories, cases, and issues related to the First Amendment and freedom of speech; analysis of issues related to social protest, dissent, artistic freedom, academic freedom, and other related areas. Offered in odd numbered years.

3109. Parliamentary Procedure/(1).F;S.

An introduction to the basic principles of parliamentary procedure, with emphasis upon types of motions, procedural rules in the deliberative process, functions of a chairperson, formalities of parliamentary debate, order of business, the typical association's constitution, etc. The course involves both theory and practice, closing with a mock assembly conducted under *Robert's Rules of Order*.

3110. Small Group Communication/(2).F.

The theory and practice of small group communication, with emphasis upon the psychology of small group interaction, styles and methods of leadership, environments and small group interactions, and problem/solution methodologies in small group interactions. Students are provided the opportunity to apply theory in actual small group projects.

3111. Theory and Criticism of Rhetorical Communication/(3).F.

Study of the classical foundation of rhetorical theory with emphasis on Greek and Roman contributions and theorists. A study of methodologies of rhetorical criticism including those of the classical-traditional, experiential, new rhetoric and contemporary. Application of rhetorical theory and criticism to actual rhetorical events and situations.

3152. Communication in Organizations/(3).F;S;SS.

Examines communication within organizational structures; develops skill in language, observation and listening; teaches improved communications skill through interview and formal presentations. Oriented to the speech communication requirements of the contemporary business and professional community.

3155. Theory and Practice of Persuasion/(3).F;S;SS.

Survey of the theories of persuasion, with emphasis upon persuasive forms in public address, print and non-print advertising, and all general forms of public suasion. Practice in the preparation of a persuasive campaign, with options open for that campaign to be developed for one or more media.

3202. Theatre Directing Techniques I/(3).F;S.

Basic directing techniques including script analysis, production planning and coaching the actor. Practical applications of the principles of directing. Prerequisite: CMA 2203 & CMA 2208.

3203. Acting Techniques II/(3).S.

Intensive character analysis based on the Stanislavski system. Role and scene study that is ensemble/performance oriented. Two hours lecture, two hours lab. Prerequisite: CMA 2203. Offered in alternate years.

3208. Advanced Stagecraft/(3).On Demand.

Study of advanced areas of theatre technology. Includes recent advances in materials and techniques for theatrical production.

3209. Scene Design/(3).S.

Study of the process of scene design. Development of procedures and skills used to design settings for a variety of theatrical productions. Prerequisites: CMA 2205, 2208.

3210. Classical Theatre History/(3).F.

Study of theatre architecture, production techniques, and dramatic literature from primitive ritual to the end of the 17th Century. Offered in odd numbered years.

3212. Modern Theatre History/(3).F.

Study of theatre architecture, production techniques, and dramatic literature during the eighteenth, nineteenth and twentieth centuries. Offered in even numbered years.

3220. Theatre Management/(2).S.

The theory and practice of business management, promotion principles and producing as applied to the theatre. Offered in even numbered years.

3230. Playwriting/(2).S.

A practical course in writing for the stage which also introduces some basic techniques in dramatic criticism and writing screen plays. Emphasis is on completing a final project which is of sufficient quality to merit production. Offered in alternate years.

3256. Advanced Children's Theatre/(3).S.

Advanced problems in performance for the child audience. Participation in a production touring to local schools during the term. Prerequisite: CMA 2256.

3300. Mass Media and Society/(3).F.

A survey of the social impact of mass media. Analysis of issues such as mass media and individual behavior, violence and TV, media and consumers, and mass media and popular culture.

3301. Writing for Radio and TV/(3).F;S.

Formats and techniques of writing for the broadcast media.

3316. TV Production/(3).F;S.

Technical, aesthetic, organizational, and business aspects of television production with an emphasis on current equipment and production techniques; laboratory practice in television production. Two hours lecture, two hours laboratory. Prerequisite: CMA 2316.

3318. Introduction to Public Relations/(3).F;S;SS.

A study of the basic principles of public relations, its legal and social aspects, and the media used by its practitioners. Designed to give the student an appreciation of the public relations function and its role in our society.

3320. Broadcast Production/(3).F;S.

A course for non-broadcasting majors. Introduces students to the basic terminology, equipment and operating procedures used in the production of material for radio and television. Includes radio and television laboratories. Two hours lecture, two hours lab.

3406. Readers Theatre/(2).S.

Techniques of compiling, adapting, and directing literature for group performance. Designed to prepare students to direct readers theatre in the public schools. Prerequisite: CMA 2406 or permission of instructor.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-3). On Demand.

A program involving advanced study, a research or creative project, and writing. Adapted to serve students who have exceptional interests. The proposals for this work must be approved by the instructor and the chairperson of the department prior to registration.

3600. Advanced Journalism/(3).S.

Study of principles, processes and techniques of editorial and feature writing for print media. Intense practical training in advanced writing styles and skills. Prerequisite: CMA 2600, 2610, or consent of the instructor.

3900. Internship/(3-12).F;S;SS.

A designed work experience program in either broadcasting, theatre, or speech communication. Graded on S/U basis.

4175. Directing Co-Curricular High School Program/(2).F.

Prepares students to conduct the co-curricular programs of dramatics and forensics in high schools and junior high school.

4180. Communication Theory/(3).F;S.

Study of communication theories, systems, models, formulations and measurements; new dimensions in speech criticism and research methodology; critical study of published reports in the contemporary literature of the field.

4182. Speeches on American Issues/(3).F.

A study of American speakers from the Revolutionary Period to the present, with special reference to the influence of their rhetoric on the issues of the period. Offered odd numbered years.

4202. Theatre Directing Techniques II/(2).F;S.

Advanced directing techniques including interpretation, composition and picturization. Practical application of directing principles through the production of a one-act or full length play. Prerequisite: CMA 3202.

4203. Acting Techniques III/(3).S.

An advanced course in period styles from Greek to the present. The acting student will explore and analyze non-realistic texts and perform in a variety of styles.

4256. Creative Drama/(3).F.

Aids the potential K-12 teacher in using drama as a creative teaching technique. Methods of teaching elementary school drama; practical experience in using drama activities to develop basic skills in human development.

4300. Media Sales/(3).S.

A study of the techniques used by the mass media to sell space and time to advertisers. Included is a study of personal selling; company, product, and

audience research; media-audience matches; and media sales presentations. Also examined are the strengths and weaknesses of a variety of print, radio and television advertising techniques and strategies.

4315. Broadcast Programming and Management/(3).F;S.

A seminar approach to contemporary programming techniques for broadcasting including programming analysis, development, and implementation in real and hypothetical situations. Emphasis on management functions of audience analysis, selection of formats, financial considerations, engineering problems, and personnel planning.

4316. Advanced TV Production/(4).F;S.

Advanced Problems in dramatic and non-dramatic television for producer, director, and performer; professional level production. Prerequisite: CMA 3316.

4318. Public Relations Practices/(3).F;S.

An advanced course which uses case studies to examine public relations problems and their solutions. Students receive practical guidance in the creation of public relations messages and products.

4406. Advanced Oral Interpretation/(2).F.

Survey of interpretation history and theory; performance emphasis on programming, book reviewing, and adapting prose and poetry. Prerequisite: CMA 2406. Offered odd numbered years.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Health Education, Physical Education and Leisure Studies (HED/PE/LS)

Vaughn K. Christian, Chairperson

The Health Education, Physical Education and Leisure Studies Department, as part of the College of Fine and Applied Arts, assumes the responsibility for educating students to understand the significance of human movement, quality leisure, optimal health, and personal safety. The department offers instruction, research and services to meet these

needs and respond to current societal trends. Consequently, the student is prepared to develop and lead related activities and programs in a variety of community settings, having acquired knowledge and skills to plan and implement programs for diverse populations. The Department also offers ongoing services for all students, faculty and staff, and actively supports the following student organizations: Health Educators and Professionals Club, Physical Education Academy (ZAPEA), and Professional Recreators Association.

Physical Education - Degree

Graduates earning a BS degree in Physical Education will have an understanding of: the relationship of the structure and the function of the human body to effective living, methods and techniques used to develop motor skills, the implementation of programs and services, and the use of evaluative techniques.

A Bachelor of Science degree in Physical Education with a concentration in General Physical Education *without teacher certification* consists of 49 to 54 semester hours in addition to the general education requirements. The student must select six-eight semester hours of biology or chemistry or physics, PE 1100 and 1101 as activity courses, History 1101 and 1102 and Math 1020 or higher. (Students who transfer 60 s.h. or more must take PE 1100 and at least one additional hour from 1101 or 1200 or 1201). Core courses in the major include HED 1105 or 3110, 3100; PE 1550 (minimum grade of "C", 2.0, required for admission into P.E. program), 1200 and 1201, 2000, 2010, 2020, 2556, 2560, 3510, 3550, 4000. The student who is interested in the adolescent and adult population selects courses in the secondary school emphasis: PE 3200; 3580; four to five semester hours from Core I, Individual and Dual Skill and Technique courses; four semester hours from Core II, Team Sport Skill and Technique courses; and two semester hours from Core III, Recreational Sport Skill and Technique courses. The student who is interested in the child population selects courses in the elementary school emphasis: PE 3010, 3020, 3030, 3560, 4050, 4060. A minor in another academic area, as well as electives to total 122 s.h. minimum are required for graduation.

A Bachelor of Science degree in Physical Education, K-12 with *teacher certification* consists of 49 to 54 semester hours in addition to the general education requirements. As part of the general education requirements, the student must select six-eight semester hours of biology or chemistry or physics, PE 1100 and 1101 as activity courses, (students who transfer 60 s.h. or more must take PE 1100 and at least one additional hour from 1101 or 1200 or 1201), History 1101 and 1102, and Math 1020 or higher. Core courses in the major include HED 1105 or 3110, 3100, PE 1550 (minimum grade of "C", 2.0, required for admission into the P.E. program), 1200, 1201, 2000, 2010, 2020, 2556, 2560, 3510, 3550, 4000. The student who is interested in teaching at the secondary school level selects courses in the secondary school emphasis: PE 3200; 3580; 4010; four to five semester hours from Core I, Individual and Dual Skill and Technique courses, four semester hours from Core II, Team Sport Skill and Technique courses; and two semester hours from Core III, Recreational Sport Skill and Technique courses. The student who is interested in teaching at the elementary school level selects courses in the elementary school emphasis: PE 3010, 3020, 3030, 3560, 4050, 4060. HED 3110 should be substituted for HED 1105 if

receiving a double major in Health Education and Physical Education or if minoring in Health Education. For the requirements in teacher education, see the Department of Curriculum and Instruction.

Exercise Science

A Bachelor of Science degree in Physical Education (*without teacher certification*) with a concentration in Exercise Science consists of 70-73 semester hours in addition to the general education requirements. Physical Education Core Requirements (29-35 s.h.) consists of PE 2000, 2005, 2010, 2020, 3200, 3450, 3550, 4005, and 4055 (3-6 s.h.). Allied Core Requirements (41 s.h.) consist of BIO 1101, 3300, 3301, 4554; CHE 2201; HCM 3110; PHY 1103, 1104, 1700, and 4820; PSY 4650 and 4700; and SOC 3100. Courses required in General College not included in the above 70-73 s.h. include the following 20 semester hours: ANT 1210; CHE 1101 and 1102; MATH 1020; PE 1013 and 1014; and PSY 2201. A student must meet proficiencies in racquetball, tennis, speech, swimming and CPR. No minor required.

Athletic Training and Sports Medicine Concentration

A Bachelor of Science degree in Physical Education (*without teacher certification*) with concentration in Athletic Training and Sports Medicine (and also prepares the student for NATA athletic training certification) consists of 82 semester hours in addition to the general education requirements. Physical Education Core Requirements: PE 1600, 2000, 2005, 2100, 2010, 3200, 3450, 3550, 3600, 3610, 3620, 4005, and 4025. Allied Core Requirements consist of: HED 1105, 3100, HEC 2202, BIO 1101, 3300, 3301, 4554, CMA 1100, CHE 1101, 1102, 2201, HCM 3110, PHY 1700, 4820 and PSY 4650. General College courses required as part of this major include: PHY 1104, MATH 1020 or higher, ANT 1210, PSY 2201, PE 1013, and 1014. The student must demonstrate proficiency in Speech, CPR and two aerobic lifetime activities.

In addition, the student must spend a minimum of four (4) semesters beyond their freshman year (minimum 800 clock hours) in the training room, gaining clinical experience under the supervision of a N.A.T.A. certified athletic trainer.

The athletic training curriculum requires the student to apply for admission to the curriculum and maintain a 2.5 overall GPA during their clinical practicum. Students must also earn a grade of C or better in PE 1600, 3200, 3600, 3610, 3620 and 4025 to complete the concentration. Write the Director, Athletic Training Curriculum for an application and information.

Athletic Training (Leading to N.A.T.A. Certification)

A non-degree program in athletic training is open to all majors and appropriate for students pursuing teaching certification. This program provides academic and clinical preparation for students pursuing N.A.T.A. (National Athletic Trainers Association) certification and planning to enter the athletic training profession only. The following courses are required: PE 1600, 2000*, 2010*, 2100, 3200, 3550*, 3600, 3610, 3620, 4025, HED 1105* or 3110*, 3100, HEC 2202, and PE 2005, 3450, 4005 or 1550*, 2005, 4000*. Students will be expected to complete the following courses as part of their General College course work: PHY 1103, 1104, MATH 1020 or above, ANT 1210, PSY 2201 and PE 1013, 1014 or 1100*, 1101*.

(*denotes courses which are normally taken as part of a PE undergraduate major.)

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In addition the students must spend a minimum of four (4) semesters (800 clock hours) beyond their freshman year in the training room gaining clinical experience under the supervision of a N.A.T.A. certified athletic trainer.

The athletic training curriculum requires the student to apply for admission to the curriculum and maintain a 2.5 overall GPA during their clinical practicum. Students must also earn a grade of C (2.0) or better in PE 1600, 3200, 3600, 3610, 3620 and 4025 to complete the concentration. Write the Director, Athletic Training Curriculum for an application and information.

A Minor in Physical Education

A minor in physical education consists of 20 semester hours. The program is designed individually according to the student's interests and designated major, and in consultation with the advisor, area coordinator and department chairperson.

Minor in Athletic Coaching (Non-PE Major)

A minor of 22 semester credits in athletic coaching is open to nonphysical education majors. Courses required include: HED 3000 and 3100; PE 1100 and 1101, 3200, 3510, 3550, 4045; one course from Core I, Individual and Dual Skill and Technique courses; one course from Core II, Team Sport Skill and Technique courses. Recommended courses include: PE 2560; or additional courses from Core I and II. Six-eight semester hours of biology or chemistry or physics are also required.

Minor in Dance

A minor in dance consists of 21 semester hours including PE 1026, 1400 or 2400, 1410 or 2410, 1420, 2000, 3073, 3420, 3430, and 3440.

Health Education

Students earning a BS degree in Health Education will have the competencies needed to provide leadership in health promotion and disease prevention for communities, hospitals, voluntary agencies, schools, and private industry.

Community Health Education

A Bachelor of Science degree in Community Health Education without teacher certification consists of a minimum of 46-52 s.h. in addition to general education requirements plus a 15 s.h. concentration.

- I. Required Courses (46-52 s.h.): HED 3000, 3100, 3110, 3120, 3130, 3530 (2 s.h. min.), 4100, 4650, 4660, 4900 (6 s.h. min.); ANT 2215, HEC 2202, CI 4750; CMA 3152 or 3155; and HPC 4790.

- II. Concentrations (15 s.h.) - Choose one:

Administration of Community Health Programs: HCM 3110, 3130, Choose three courses from the following - HCM 4150, 4430, LHE 4980, SOC 3750, PSY 4671, PS 2160;

OR

Psychological Bases for Community Health: PSY 2201, 4551 or 4671, PS 4175,

Choose two courses from the following - PSY 3301, 3392, 4551 (if not taken above), 4560, 4562, 4650, 4671 (if not taken above), HPC 4570;

OR

Nutrition in Community Health: HEC 3205, 4204, 4315, Choose two courses from the following - PSY 4650, 4700, SW 4550, LHE 4980, HCM 3110;

OR

Sociological Bases for Community Health: SOC 4100, 4400, Choose three courses from the following - SOC 2850, 3100, 3750, 4570, 4800, P&R 3700, HEC 4101.

Six-eight semester hours of biology or chemistry are required.

No minor required.

Health Education (with Teacher Certification)

A Bachelor of Science degree in Health Education, Secondary Education (K-12) (*with teacher certification*) consists of 44 minimum semester hours in addition to the general education requirements and the professional education courses required for state certification. These courses include: HED 3000, 3100, 3110, 3120, 3130, 3520, 3655, 4100, 4650, 4660, 4900 (3 s.h. min.), one course from HED 3530 or 4700 or TSE 3200; HEC 2202; CI 4750; any two semester hour sociology or psychology course at or above the 3000 level (not counted toward general or professional education); and, for the speech requirement, one of the following: CMA 3110, 3152, or 3155. Six-eight semester hours of biology or chemistry are also required. For the requirements in teacher education, see the Department of Curriculum and Instruction.

Minor in Health Education, General (Non-teaching majors)

A minor in Health Education, General consists of 16 semester hours. Required courses are: HED 3100, 3110, 3120 or 3130, 4650, and 4660. Six semester hours of biology or chemistry are required.

A Minor in Health Education, General (Teaching majors)

A minor for those students with or working towards a teaching certification in a subject area other than health education. This minor fulfills the North Carolina Department of Public Instruction requirements for endorsement. An endorsement allows an individual to teach less than one-half time in health education. The minor consists of 18-20 semester hours. Required courses are: HED 1105, 3100, 3655, 4650, 4660, and HEC 2202. Students may choose one of the following to complete the minor: HED 3110, 3120, 3130, 3530 or 4700. Six semester hours of biology or chemistry are required.

Leisure Studies

A Bachelor of Science degree in **Recreation** consists of 49-54 s.h. The student must complete all requirements of the Core, and must choose one of three concentrations (Recreation Program Management, Outdoor Recreation Management or Commercial Recreation Management), and the required internship. A minimum grade of "C" (2.00) in LS 2100 is required of all students in the Leisure Studies curriculum.

I. **Required Courses** (24 s.h.) - LS 2100, 3440, 3450, 3860, 4100, 4320, 4850, and HED 3100.

II. **Concentrations** (17-18 s.h.) - Choose one:

Recreation Program Management (18 s.h.) - LS 2400, 3310, 3320, PS 2160, GHY 3400, and SOC/PS 3328.

OR

Outdoor Recreation Management (17 s.h.) - PE 1049; LS 3300; Two courses from Advanced Outdoor Skills - LS 3381, 3382, 3383, 3384; LS 4300 or 4600; LS 4350, 4360, and BIO/PSY 3318.

OR

Commercial Recreation Management (18 s.h.) - LS 3300, 4300 or 4600, 4550, 4560, MGT 3010, and GHY 3400.

III. **Internship** (8 s.h. minimum) - LS 4900.

A minor is required.

Internship Information - Two internships are listed: LS 4900 Internship IR is required in the major in Recreation. LS 3900 Internship I is required in the minor in Recreation. LS 3900 may be taken as an elective course by majors.

The following rules apply to prospective interns: (1) Any internship course may be repeated for added elective credit. (2) Credit for either internship course may not exceed 12 semester hours. (3) Not more than 15 semester hours of internship credit may be applied toward graduation requirements. (4) Not less than 6 semester hours can be registered for a summer internship. This rule applies to students in the minor program as well as to students in the major program; however, it does not apply to Fall or Spring internships. (5) On-the-job internship time is determined by the ratio of 40 contact hours for one hour of credit. (6) No internship may be less than 6 weeks in continuous time. (7) All prospective interns must plan their placement under the supervision of the faculty coordinator of Leisure Studies Internships.

Minor in Recreation

A minor in Recreation consists of 20 semester hours. Courses required are: HED 3100, LS 2100, 3440, 3860, and 3900 (2 s.h. minimum). In addition, the student will select 6 semester hours of Recreation (LS courses within one of the three concentrations of the major in Recreation).

Driver and Traffic Safety Education

Students earning a B.S. degree in Driver and Traffic Safety Education will have the competencies and skills needed to develop and provide quality high school Driver Education and school safety education programs. The curriculum also serves as a basis for individuals desiring employment in the field of safety with the Armed Forces, industry, insurance and loss prevention companies and governmental agencies.

A Bachelor of Science degree in Driver and Traffic Safety Education *with teacher certification* consists of 40 semester hours. Twenty-eight semester hours are required from the following: HED 3100, 4650; TSE 2200, 3200, 3210, 4200, 4210, and 4750; FDN 2200. Electives: Nine semester hours from TSE 2500, 3500, 3530, 3750, 3900; CI 4750; PE 2020; and three semester hours of psychology or sociology (subject to stated prerequisites and not included in general education or professional education at upper division level) or LRE 3370. For the requirements in teacher education, see the Department of Curriculum and Instruction.

A satisfactory driving record must be maintained to receive teacher certification in Driver and Traffic Safety Education in North Carolina.

Minor in Driver and Traffic Safety Education

A minor of 16 semester hours in Driver and Traffic Safety Education is open to all majors and requires: TSE 2200, 3200, 3210, 4200, and 4210.

The Department of Health Education, Physical Education and Leisure Studies offers the following degrees at the graduate level: Master of Arts degree in Health and Physical Education (leading to teacher certification) with concentrations in Adapted Physical Education, Sports Management, Master Teacher and Athletic Coaching; Master of Arts degree in Health and Physical Education (non-teaching) with concentrations in Sports Management and Athletic Coaching; and the Master of Science degree in Exercise Science. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Health Education, Physical Education, and Driver and Traffic Safety Education

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

Health Education

1105. Health and Wellness/(2).F;S;SS.

Survey course for non-health education majors. Focus is on basic wellness issues: nutrition, weight control, fitness, sexuality, drugs, mental and environmental health. Analysis will also be made of public and private health organizations, the addictive process, positive risk taking, value systems, social support, and communicable, chronic and stress related diseases. Emphasis will be placed on achieving personal wellness.

2500. Independent Study/(1-4). F;S;SS.

3000. Anatomy and Physiology, A Systems Perspective/(3).F.

A study of the structural and physiological functions of the human body with emphasis on the endocrine, reproductive and digestive systems and the metabolic pathways. Required of health education majors. (A student may not receive credit for PE 2000 and HED 3000.) Lecture three hours.

3100. Advanced First Aid and CPR/(3). F;S;SS.

Principles and techniques of emergency First Aid including CPR with emphasis also placed on related safety consciousness. American Red Cross certification may be earned.

3110. Personal, School and Community Health/(4).F.

An in-depth study course designed specifically for health majors with an introduction to the field of health education. A study of the physical, intellectual, emotional and social factors of personal, school and community health. Topics include methods of control and prevention of communicable, chronic and stress-related diseases, mental health, aging, and health of the school-age child, as well as comprehensive analysis of private and public health organizations.

3120. Consumer Health Education/(3).F.

An overview of health products and services. Analysis will be made of the health care delivery system and wise decision making in the health market place. Included is the study of alternative healing practices, advertising of health products, and financing of health care from the consumer's perspective. The role of the FDA and FTC and other consumer protective agencies will be studied.

3130. Environmental Health/(3). S.

Study of the application of various principles of environmental sciences and ecology as they relate to the prevention and control of disease, overpopulation, pollution of water, air, land, solid waste and noise. The interdependence of man, the environment, and disease will be stressed.

3500. Independent Study/(1-4). F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-3).On Demand.

Advanced study in selected current health topics. Topics will be chosen on the basis of their impact on the health status of society and on their relevance to students. May be repeated for a maximum

of nine (9) hours with no specific topic being taken more than once.

3655. Methods and Materials in Health Education/(2).F;S;SS.

The theory and practice of planning health education programs for elementary and secondary levels; including the use of a variety of methods and development of relevant materials. Health education as part of the total school health program is discussed.

4100. Biostatistics/(2).S.

A study of computational techniques, theoretical frameworks and methodology used in the application, measurement, interpretation and evaluation of statistics in the health sciences. The use of micro and mainframe computers will be explored.

Senior/Graduate Courses

4650 Drugs, Alcohol and Tobacco/(3).F;S;SS.

A study of drug use and abuse. All classes of drugs including alcohol and tobacco will be discussed. Emphasis will be placed on the psychological and sociological factors which may lead to drug experimentation and heavy drug use. Emphasis will also be placed on methodology and techniques for the teaching of drug education.

4660. Human Sexuality and Family Living/(3).F;S;SS.

Information and concepts of sex education including physiological, social, psychological, and moral aspects of human sexuality will be studied. Such topics as dating, marriage, prenatal and postnatal care and interfamily relationships leading to reduction of stress on family members are also to be included. Emphasis will also be placed on methodology and techniques of teaching and organizing a sex education program.

4700. Death and Dying/(3).F;S;SS.

An examination of how dying, death, and grief are experienced, including how support can be given through helping relationships to those who are dying or experiencing bereavement. Consideration will be given to the issues of euthanasia, suicide, body disposition, and rites of passage, the relationship of death to life. Students will have the opportunity to explore personally the meaning of death, other experiences of loss, and the quality of life.

4900. Internship/(3-12).F;S;SS.

Students are placed in a variety of health related agencies such as health departments, community

action agencies, community mental health centers, educational institutions, wellness programs, hospitals, industrial/business settings, etc. for part or all of a semester or summer, under the direction of the health internship coordinator. The student surveys agency functions, completes a project and writes a final paper under the supervision

of a health educator or health related person. Prerequisite: HED 3110 and senior standing. Graded on an S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Physical Education - General Education (Activity Courses)

All students are required to elect two semester hours of activity courses (numbered 1000 to 1082). Nonswimmers are urged to take PE 1000. Courses need not be taken in any particular sequence. The primary aim will be the attainment of knowledge and understanding of skills for the enjoyment of lifetime physical activity. The physical education activity courses will provide opportunities for skill analysis, skill acquisition and physical fitness development through skill participation which will afford healthful experiences for both the present and the future.

Physical education attire is furnished and laundered by the University for campus activity. Students furnish their own athletic socks, rubber-soled shoes, jackets, and swimming suits. Towel service is provided.

Physical education attire must be turned in after the last period class is required to "dress out". A fine of \$10 will be assessed for turning in attire late.

The following activity courses (numbered 1000-1082) are open to all students to fulfill the general education requirements of two semester hours of physical education and for those electing to take more than the minimum. Physical Education Majors must take Physical Education Activity Cores: 1100-1101 and 1200-1201.

Aquatics Courses

1000 through 1005 are graded on an S/U basis.

- 1000. Swimming for Nonswimmers (1).F;S.
- 1002. Beginning Swimming (1).F;S.
- 1003. Intermediate Swimming (1).F;S.
- 1005. Open Water Scuba Diving (1).F;S.
(Fee charged)

Developmental Courses

1010 through 1016 are graded on an S/U basis.

- 1010. Physical Education for the (1).
Disabled. On demand.
- 1011. Lifestyles (1).F;S.
- 1013. Jogging/Conditioning (1).F;S.
- 1014. Weight Training (1).F;S.
- 1016. Self-Defense (1).F;S.

Individual/Dual Sports Courses

1018 through 1059 are graded on an S/U basis.

- 1018. Racquetball (1).F;S;SS.
- 1024. Handball (1).F;S.
- 1025. Badminton (1).F;S.

- 1026. Recreation Dance (1).F;S.
- 1027. Beginning Tennis (1).F;S;SS.
- 1028. Modern Dance (1).F;S.
- 1029. Intermediate Tennis (1).F;S.
- 1030. Fencing (1).F;S.
- 1031. Squash (1).F;S.
- 1032. Gymnastics (1).F;S.
- 1038. Archery (1).F;S.
- 1044. Beginning Skiing (Fee charged) (1).S.
- 1046. Intermediate Skiing (1).S.
(Fee charged)
- 1047. Cross Country Skiing (1).S.
and Snowshoeing (fee charged)
- 1049. Backpacking/Orienteering (1).F;S.
- 1050. Bowling (Fee charged) (1).F;S.
- 1055. Horsemanship (Fee charged) (1).F;S.
- 1057. Canoeing (1).F;S.
- 1058. Marksmanship (1).F;S.
- 1059. Ice Skating (Fee charged) (1).F;S.

Team Sports

1071 through 1082 are graded on an S/U basis.

1071. Softball/Basketball (1).F;S.

1074. Soccer (1).F;S.

1076. Volleyball (1).F;S.

1080. Field Hockey (1).F.

1082. European Team Handball (1).F;S.

Physical Education Majors Activity Cores

The following courses will be graded according to the regular grading scale (A-F):

1100. Core A - Fundamental Movement, Weight Training/Conditioning and Swimming/(1).F;S.

Fundamental movement, weight training/conditioning and swimming; for physical education majors. Three hours laboratory. Pre- or co-requisite PE 1550.

1101. Core B - Tumbling, Gymnastics and Track and Field/(1).S.

Tumbling, gymnastics and track and field; for physical education majors. Three hours laboratory. Pre- or co-requisite: PE 1100.

1200. Core C - Field Hockey, Tennis, Basketball/(1).F.

Field hockey, tennis, and basketball; for physical education majors. Three hours laboratory. Pre- or co-requisite PE 1100.

1201. Core D - Modern Dance, Volleyball and Soccer/(1).S.

Modern dance, volleyball and soccer; for physical education majors. Three hours laboratory. Pre- or co-requisite PE 1100.

Physical Education Professional Courses

The following Physical Education Professional Courses (numbered 1400-4570) are open to Physical Education majors and as electives to all students. These courses may NOT be used to fulfill the general education requirement of two semester hours for physical education.

1400. Modern Dance I/(2).F;S.

An introduction to the art of dance, primarily concerned with the development of technique and the basic elements in dance, force, space, direction, time and rhythm.

1410. Ballet I/(2).F;S.

A beginning course in the study and practice of classical ballet.

1420. Jazz I/(2).F.

A study and exploration of jazz technique with a strong emphasis on rhythmic awareness. Prerequisite: PE 1400 and/or PE 1410.

1501. Officiating Volleyball, Football and Soccer/(3).F.

A study of the rules and rule interpretations of volleyball, football and soccer with emphasis on the proper techniques of officiating. Two hours lecture; two hours lab (a minimum of 32 hours lab per semester without pay and with supervision.)

1502. Officiating Basketball, Softball, Baseball, Track and Field/(3).S.

A study of the rules and rule interpretations of basketball, softball, baseball, track and field with emphasis on the proper techniques of officiating. Two hours lecture; two hours lab (a maximum of 32 hours lab per semester without pay and with supervision.)

1530-1539. Selected Topics/(1). On Demand.

1550. Introduction to Principles and Philosophy of Physical Education/(4).F;S.

A course to orient beginning majors by introducing them to the foundations, principles, and philosophies of physical education with a consideration of professional opportunities and evaluation of the competencies needed by a physical education major. Rigorous testing of basic competencies will be included. Must be taken on ASU campus. A minimum grade of C (2.0) is required to be admitted to the physical education major program. Four hours lecture, one hour laboratory.

1590. Advanced Life Saving and Water Safety/(2).F;S.

A course designed to provide an opportunity for an individual to acquire the skills and knowledge necessary to save his own life or the life of another in the event of an emergency while in, on or about the water. American Red Cross requirements. Prerequisite: PE 1003 or equivalent. One hour lecture, two hours laboratory.

1600. Introduction to Athletic Training/(2).F;S.

An introductory course for athletic training students preparing to begin or actively involved in

their first semester of clinical experience in athletic training. Topics covered include safety in the training room musculo-skeletal and surface anatomy, sports medicine terminology, injury evaluation, basic taping and the use of therapeutic modalities. The primary purpose of the course is to prepare the student to use the clinical experience as a learning tool. Two hours lecture.

2000. Human Anatomy and Physiology/(5). F;S.

A descriptive study of the systematic and regional structures of the human organism and of the basic life functions of those systems for a better understanding of physical activity. Prerequisite: six semester hours of biology or chemistry or physics. Four hours lecture, two hours lab.

2005. Theories of Physical Fitness Programs/(3).S.

Acquaints the student with all aspects of developing and conducting a fitness program within the public sector. An introduction to EKG interpretation, graded exercise testing, lung functions, body composition, and heart disease profiles will be covered. The theory will be followed by application of the above parameters to the purposes, principles and precautions of an exercise program.

2010. Physiology of Muscular Activity/(3). S;SS.

A study of the physiological principles as applied to muscular activity and the effects of muscular activity on the human organism. Two hours lecture and two hours laboratory. Prerequisite: PE 2000. Two hours lecture, two hours lab.

2020. Measurement and Evaluation in Physical Education/(3).F;S;SS.

A theory and methods course in the meaning and application of measurement, tests, elementary statistical procedures and evaluation in physical education. Two hours laboratory and two hours lecture. Prerequisite: MAT 1020 or higher.

2100. Athletic Training Clinical Seminar/(1,1,1,1).F;S.

This seminar class should be taken by the athletic training student during four (4) semesters beyond their freshman year in which they are full-time student trainers. Material will supplement the learning experience gained from clinical work. One semester hour in each of four semesters, fall and spring. Prerequisite: PE 1600. Graded on S/U, 1 hour lecture.

2400. Modern Dance II/(2).S.

A second level of study of dance technique and basic elements. Prerequisite: Modern Dance I or

equivalent competency. Two hours lecture, one hour lab.

2410. Ballet II/(2).F.

Study and practice to develop skill, grace, precision and facility in the style of classical ballet. Prerequisite: Ballet I or equivalent competency. Two hours lecture, one hour lab.

2500. Independent Study/(1-4).F;S;SS.

2556. The Child: Implications for Elementary Physical Education/(3).F;S;SS.

A course focusing on children and how they learn in the context of movement experiences. Three hours lecture.

2560. Physical Education, Sport, and Civilization/(3).F;S.

A survey of the development of world civilization as influenced by sport and physical education; to include a study of historical backgrounds, systems, organizations, leaders, movements, concepts and socio-cultural processes. Three hours lecture. Prerequisites: HIS 1101-1102 or equivalent sequence.

3010. Games for Children/(2). Offered every third semester.

A study and application of the movement themes which provide the games content for elementary school physical education focusing on the movement approach. One hour lecture and two hours laboratory. Prerequisite: PE 2556 or 3556.

3020. Gymnastics for Children/(2). Offered every third semester.

A study and application of the movement themes which provide the gymnastics content for elementary school physical education, focusing on the movement approach. One hour lecture and two hours laboratory. Prerequisite: PE 2556 or 3556.

3030. Dance for Children/(2). Offered every third semester.

A study and application of the movement themes which provide the dance content for elementary school physical education, focusing on the movement approach. One hour lecture and two hours laboratory. Prerequisite: PE 2556 or 3556.

3045. Sport Psychology/Coaching Leadership/(3).F;S.

An introductory course in Sport Psychology directed primarily toward the undergraduate student preparing for coaching, teaching, or participation in sport.

Skill and Technique Courses (3072 through 3099)

Each course will emphasize the correct movement patterns and conditioning necessary for efficient performance and will encourage the prospective teacher* to integrate teaching strategies into lesson organization and planning. Each future teacher will be requested to demonstrate proficiency in the teaching process related to selected aspects of each course. The skills and techniques courses are designed to guide the prospective teacher to select activities based upon growth maturation levels for preschool, elementary, junior high, secondary and college students. The prospective teacher will apply basic anatomical, physiological, kinesiological, and socio-psychological concepts as related to analysis, and evaluation of motor performance. When applicable, the future teacher will also synthesize the principles relevant to the construction, selection, purchase, and maintenance of facilities, equipment, and supplies.

When applicable, the student is to complete the appropriate physical education majors activity core prior to the corresponding skill and technique course. For example, PE 1200 is prerequisite to PE 3072. For the student in the athletic coaching minor or the junior transfer student majoring in physical education, the appropriate fundamental movements and sports skills part is pre/corequisite to the corresponding skill and technique course.

Each skills and techniques course will further permit the prospective teacher to judge the appropriateness of measurement procedures and evaluation tools devised to meet the individual needs of the future student.

*Teaching is considered to be synonymous with coaching—coaching is teaching.

CORE I.

Individual and Dual Skills and Techniques
(Physical education majors must complete four-five semester hours)

- 3072. Tennis** (2).F;S;SS.
Two hours lecture, one hour lab.
- 3073. Dance** (2).F;S.
Two hours lecture, one hour lab.
- 3075. Wrestling** (2).F.
Two hours lecture, one hour lab.
- 3076. Track and Field** (2).F;S.
Two hours lecture, one hour lab.
- 3077. Conditioning and Safety** (2).F;S.
Two hours lecture, one hour lab.
- 3078. Gymnastics** (3).F;S.
Meets 250 minutes per week.

CORE II.

Team Sports Skills and Techniques (physical education majors must complete four semester hours).

- 3080. Volleyball** (2).F;S.
Two hours lecture, one hour lab.
- 3081. Field Hockey** (2).F.

- 3083. Basketball** (2).F;S.
Two hours lecture, one hour lab.
- 3084. Football** (2).F;S.
Two hours lecture, one hour lab.
- 3085. Soccer** (2).F;S.
Two hours lecture, one hour lab.
- 3087. Softball and Baseball** (2).F;S;SS.
Two hours lecture, one hour lab.

CORE III.

Recreational Sport Skills and Techniques
(physical education majors must complete two semester hours).

- 3090. Aquatics/Water Safety Instructor** (2).F;S;SS.
Two hours lecture, one hour lab. Prerequisite PE 1590 or equivalent. May be taken for American National Red Cross Certification.
- 3092. Skiing** (2).S.
Intermediate skiing ability required. Includes teaching skiing and ski patrolling.

3093. Badminton, Handball and Racquetball (2).F;S.

Two hours lecture, one hour lab.

3096. Selected Recreation Activities/(1).S.

Includes cycling, table tennis, shuffleboard, horseshoes, deck tennis. One hour lecture, one hour lab.

3099. Golf and Archery (2).F;S.

Two hours lecture, one hour lab.

Physical Education Professional Courses (continued)

3200. Prevention and Care of Athletic Injuries/(3).F;S;SS.

A survey class open to all majors interested in athletic training. The course covers the prevention, recognition, care and treatment of common athletic injuries. Included are lectures on conditioning and injury prevention, warmup, epidemiology of athletic injuries, emergency situations, treatments, rehabilitation, liability and medical records. Students will be required to purchase minimal taping supplies. Two hours lecture and two hours lab. Prerequisite: PE 1600 or PE 2000. Recommended prerequisites for non-athletic training students: PE 2010.

3420. Dance Composition and Improvisation/(3).F.

Includes the study of space and design elements used in choreography and the exploration of motion based on stimuli such as sound, space, force, props and ideas. Prerequisite: Modern Dance I or II.

3430. Dance History/(2).S.

The study of the history and motivation of dance from primitive through present time. Two hours lecture.

3440. Applied Dance/(2).S.

Application of learned techniques to dance performance. Recital. Two hours lecture, one hour lab.

3450. Physiological Basis for Exercise Therapy/(3).F.

A study of acute and chronic physiological adaptations to exercise with emphasis on metabolic and cardiorespiratory function. Topics to be covered include the effects of exercise on aging, body composition, environmental stress, and medically related problems. Prerequisite BIO 1101, CHE 1101, PE 2010.

3500. Independent Study/(1-4).F;S;SS.**3510. Organization and Administration/(2).F;S;SS.**

The organization, administration, supervision, planning, budgeting, and evaluation of programs on various levels, including: use of facilities, maintenance, purchasing, insurance, varsity and intramural programs, leagues and tournaments, and public relations.

3520. Instructional Assistance/(1). F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-3). On Demand.**3550. Kinesiology/(3).F;S;SS.**

A study of neuromuscular and mechanical principles of motion as related to the analysis of optimum motor skill performance. Two hours lecture and two hours laboratory. Prerequisite: PE 2000.

3556. How Children Move: Implications for Elementary Education/(3).F;S;SS.

An overview of movement experiences in games, gymnastics, and dance focusing on the teaching of children K-8. Three hours lecture. (For non-PE majors.)

3560. The Process of Observing Children in Movement Experiences/(2). Offered every third semester.

A study and practical application of the tool of observation based on knowledge of the child, motor development, and movement content. Two hours lecture, one hour laboratory. Prerequisite: PE 2556 or 3556.

3580. Apprenticeship/(1).F;S;SS.

A practical experience in the teaching of physical education activities under direct supervision. Required prior to student teaching. The apprenticeship should be done in an activity in which the student has had the corresponding course from the physical education majors activity cores or fundamental movements and sports and skills parts or skill and technique courses. Pre/corequisite: PE 3550. Two hours laboratory with periodic seminars. (S/U) May be repeated.

3600. Athletic Injury Assessment/(2).F.

An advanced course in athletic injury prevention, evaluation and identifying injury risk factors. Topics also include neural and vascular anatomy, physiological and psychological response to injury, postural screening and splinting, bracing and casting. Evaluation of each body part will be covered along with associated injuries. Prerequisite: PE 1600 and 3200. Two hours lecture.

3610. Treatment of Athletic Injuries/(2).S.

Designed for students seeking NATA certification. The course covers the physical basis and physiological effects of agents and modalities commonly used in the treatment of athletic injuries. The emphasis will be on establishing a theoretical foundation for selecting a treatment protocol for an injury. Prerequisite: PE 1600 and PE 3200. Two hours lecture.

3620. Rehabilitation of Athletic Injuries/(2).F.

Designed for students seeking NATA certification. The course covers the principles of rehabilitation and its physiological effects. Assessment of several aspects of the athlete's rehabilitation. Hands-on practice with equipment, the basics of surgical procedures and criteria for returning an athlete to competition are covered. Prerequisites: PE 1600 and 3200. Two hours lecture.

4000. Adapted Physical Education and Recreation/(4).F;S;SS.

A survey of abnormalities and atypical cases; identification, with preventive, corrective and rehabilitative techniques and activities. Three hours lecture and three hours lab. Prerequisites: PE 2000, PE 2010, 2556, PE 3550, or by permission of instructor.

4005. Physiological Assessment/(3).F.

Introduction to error theory, validity and reliability theory with an application of the theory to selected physiological measurements of interest to exercise science. Computer applications will include exploration and demonstrations of interfacing physiological equipment to acquire data necessary for physiological assessment. Fee. Prerequisite, PE 2020, 3450.

4025. Advanced Athletic Training/(2).S.

A course designed for senior athletic training students addressing selected topics of the profession. Included are materials on sports vision, biomechanics of locomotion, training room management, counseling and education in athletic training. Prerequisites: PE 1600, 3200, 3600, 3610, and 3620. Two hours lecture.

4050. Determining Teaching Styles Appropriate for Elementary School Physical Education/(3). Offered every third semester.

Study of the effective techniques of teaching, designing, and evaluating movement experiences for elementary school age children. Three hours lecture. Prerequisite: PE 2556 or 3556.

4055. Practicum: Physiology of Human Performance/(3-6).F;S.

Laboratory. Students perform all aspects of laboratory tests (graded exercise tests, lung function, body composition, flexibility, coronary heart disease risk identification and exercise prescription) through subject consultation. Graded on S/U basis. Fee. Prerequisite BIO 3301, 3300, PE 3450, 4005. Admission to Exercise Science program.

4060. Developing a Physical Education Curriculum/(3). Offered every third semester.

A study of the significance of physical education and its role in a school curriculum. Three hours lecture. Prerequisite: PE 2556.

Senior/Graduate Courses

4551. Program Development in Adapted Physical Education/(3).F;SS. On Demand. (Eff. Fall, 1985)

This course is concerned with the development of appropriate physical education programs for handicapped children and adults. The course will include curriculum development. Inservice training, IEP Development, legislative concerns, and evaluative techniques.

4552. Methods and Curriculum in Adapted Physical Education/(3).S;SS. On Demand.(Eff. Spring, 1986)

This course is designed to address state-of-the-art techniques and methods used in the implementation of appropriate physical education programs for handicapped children and adults. Students will be required to apply classroom knowledge to a practicum setting with children and adults.

4580. Workshop/(2). On Demand.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Leisure Studies

2100. Introduction to Recreation and Leisure/(3).F;S.

An introduction to the concepts of recreation and leisure and a survey of the recreation profession.

A study of the history of leisure and the recreation movement. Development of a personal philosophy related to discretionary time and related choices.

2400. Leadership and Group Dynamics/(3).F;S.

This is a practical course in the development of leadership styles, techniques, responsibilities and liabilities in working with various recreational groups. Includes lecture and laboratory situations regarding individual qualities, leadership, communication and group process skills. Will also include new games and other recreational activity areas.

2500. Independent Study/(1-4).F;S;SS.

3300. Introduction to Outdoor Recreation/(3).F.

A survey of outdoor recreation in local, county, state, and federal agencies with emphasis on objectives, philosophies, problems, trends, and modes of operational procedures.

3310. Aquatics Management/(3).S.

A survey of the nature, diversity, and extent of aquatic programs and organizations including and examination of the community, agency, and group needs and interests. Planning and development of aquatic programs and facilities. The examination of operational problems through observation and examination of a variety of aquatic facilities and programs. Three hours lecture..

3320. Camp Management/(3).F.

The relationship of organized camping to programming, facilities, and the individual needs of the camper. Identification of administrative principles, methodology, and problems relative to staff, programming, resources, development, and management. Emphasis will be placed on the health, safety, enjoyment, and legal aspects of organized camping.

Advanced Outdoor Skills Courses (3381 through 3384)

Each course combines advanced skill development with an appreciation of the activities potential for individual experiential development. Each experience is a prelude to the leadership training received in LS 4350 and 4360. Each course will cover beginning and advanced techniques, comprehensive knowledge of safety procedures, rescue techniques, equipment, and resources. The student in the Outdoor Recreation Management concentration of the major in Recreation is required to complete two of the four courses. No prerequisites.

3381. Rock Climbing, Rappelling and Spelunking/(2).On Demand.

Lecture and weekend laboratories.

3382. Cross Country Skiing and Cycling/(2).On Demand.

Lecture and weekend laboratories.

3383. Canoeing and Whitewater Rafting/(2).On Demand.

Lecture and weekend laboratories.

3384. Expeditioning/(2).On Demand.

Lecture and weekend laboratories.

3440. Organization and Administration/(3).F;S.

The organization, administration, supervision, planning, budgeting, and evaluation of recreational operations within most types of recreational agencies. Prerequisite: LS 2100.

3450. Development and Maintenance of Recreation Facilities/(3).F;S.

A course dealing with the developing, planning, organizing, scheduling, and maintenance management of indoor and outdoor recreation areas and facilities.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-3).On Demand.

3860. Recreation Program Planning/(3).F;S.

Planning recreation and leisure activities through the use of human and material resources in public, private, and commercial recreation programs. A study in the process of planning recreation activities for various recreation agencies and for all ages of the population to be served.

3900. Internship I/(1-12).F;S;SS.

A guided practical direct leadership experience in an elected organized recreational setting. A minimum of two hours of internship credit is required of minors in recreation. LS 3900 is not required of majors in recreation, but may be taken for elective credit. For a summer internship, not less than six hours credit will be approved for

registration. Graded on S/U basis. Prerequisite: LS 2100 and HED 3100 or by permission of the internship coordinator.

4100. Evaluation in Recreation and Leisure Service Management/(3).F;S.

Methods, techniques, and application of evaluation in a variety of functions normally found in recreation and leisure service management including: clientele, programs, personnel, facilities, organization, administration, and needs assessment.

4300. The Management of Outdoor Recreation/(3).S.

This course is in sequence to Introduction to Outdoor Recreation. Topics addressed include the management process, recreation resource management, visitor management, management of intensive-use sites, management of dispersed recreation areas, and special contemporary management problems. Prerequisite: LS 3300.

4320. Special Populations/(3).F;S.

A study of and practical application of principles in the provision of recreation services to populations limited in their access to normal recreation programs. Attention of the course will focus on individual populations and the respective barriers to participation, the process of program planning and resource development that alter these limitations, and the practical experience of application of a particular plan. Attention will also be devoted to a study of successful community and institutional programs. Prerequisite: Junior or Senior standing.

4350. Outdoor Leadership/(3).S.

The purpose of the course is to teach leadership techniques. Topics will include roles and values, risk management, liability, leadership responsibilities, field leadership styles, and other topical areas that are central to effective outdoor leadership. Lecture and weekend laboratories. Prerequisites: One course from the Advanced Outdoor Skills group (LS 3381, 3382, 3383, 3384) or evidence of a specialized competency in one or more advanced outdoor skills area(s), as approved by the instructor.

4360. Outdoor Leadership Apprenticeship/(1). On Demand.

The student will be expected to assign himself/herself to a cooperating instructor as an assistant in all aspects of course management and instruction. The apprenticeship should be done in an advanced skills or physical education activity course which the student has previously com-

pleted. For this experience, the student will choose either one of the Advanced Outdoor Skills courses (3381-3384) or two of the outdoor skills courses from the physical education activities courses (1044, 1046, 1047, 1049, or 1057). The student will be under the supervision of the instructor assigned to LS 4360. Prerequisite or co-requisite: LS 4350.

Senior/Graduate Courses

4550. Travel and Tourism/(3).F.

This course provides an in-depth study of tourism and recreational travel. Topics include the origin, present characteristics, importance to state and federal economies, societal impacts, and implications of non-business travel in the United States; international travel; current issues, and management problems.

4560. Commercial Recreation/(3).S.

This course examines the private-commercial side of recreation. Topics covered include analysis of resource characteristics, location and planning aspects, analysis of development potential, capital and managerial requirements, facility development, promotion and marketing strategies, sources of technical assistance, and evaluation techniques.

4600. Ski Area Management Seminar/(3).S.

The study of planning and managing alpine ski areas. Frequent field trips to ski areas will be required. Prerequisite: beginning skiing or equivalent.

4850. Senior Seminar/(3).F;S.

Planning for continuing individual professional activity and growth in the leisure delivery services field. A series of discussions, conferences and role playing experiences related to the various aspects of organized recreation as a career. A review of internships, employment opportunities, ethical conduct and other related topics will be included.

4900. Internship II/(1-12).F;S;SS.

A guided practical leadership experience at a supervisory level within a choice of recreational organizations. A minimum of eight hours internship credit is required of majors in recreation. For a summer internship, not less than six hours credit will be approved for registration. Graded on S/U basis. Prerequisite: HED 3100 (or its equivalent or by approval of the area faculty), LS 3440 and LS 3860.

Driver and Traffic Safety Education

2200. Introduction to Driver Education/(3).F;S.

Introductory course to prepare teachers of driver education. Classroom and laboratory instruction in driver education is presented in a correlated and integrated manner to increase the knowledge and skill of the driver education teacher. Driving skills and abilities of future teachers are evaluated.

2500. Independent Study/(1-4).F;S;SS.

3200. Safety Education/(3).S.

A study of the broad area of safety content, techniques, and programs and their relationship to the school safety program. Examination of OSHA and selected areas of industrial safety.

3210. Traffic Safety/(3).S.

An in-depth study of the content, methods, techniques, and materials in behind-the-wheel instruction in driver education. In-car teaching experience provided. Prerequisite: TSE 2200 or permission of instructor, valid driver's license.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-3).On Demand.

3750. Recreational Vehicles/(3). On Demand.

Safety, the functions, handling, and operational characteristics of various recreational vehicles will be provided with laboratory experience in the operation of these vehicles and their special equipment. Prerequisite: Valid driver's license.

3900. Internship/(3-12).F;S;SS.

The student will be assigned to an educational institution, safety, or traffic-related organization to gain in-depth experience in various areas of safety. The student will provide a written report on the experiences and will participate in several seminars, small group, and/or individual conferences, related to these experiences. Graded on S/U basis.

4200. Transportation Systems/(3).F.

An overview of the broad area of transportation systems with emphasis on the highway transportation system. The basic characteristics and functions of traffic engineering applicable to driver and traffic safety education are considered.

4210. Laboratory Programs in Driver Education/(4).F.

A study of the content, methods, techniques, and materials in simulation and off-street multiple-care driving range instruction. Simulation and range teaching experience provided. Prerequisite: TSE 3210 or permission of instructor.

Senior/Graduate Courses

4750. Administering the School Safety and Driver Education Programs/(3).S.

Administrative and supervisory aspects of the driver and safety education programs at the local, state, and national level. Includes federal programs in driver and safety education. Prerequisites: TSE 4210 or permission of instructor, junior standing or higher.

4800. Emergency Medical Technician Training/(3-6).F;S.

The Department of Transportation's Emergency Medical Technician curriculum is presented in an individualized competency based module format. Hospital emergency room experience is required. Other experiences may include: Basic rescue techniques, extrication, field experience in ambulances, communication, and emergency vehicle operation. Eight hours laboratory.

Department of Home Economics (HEC)

Sammie G. Garner, Chairperson

Home economics is concerned with food quality, safety and adequacy; nutrition and diet; consumer welfare and safety; child care; family economics and management; clothing; shelter; and other issues related to individual and family well-being. The Department of Home Economics is accredited by the American Home Economics Association and offers undergraduate degree programs leading to the B.S. Degree in the following:

- Child Development
- Clothing and Textiles
- Foods and Nutrition
 - Foods and Nutrition, General Concentration
 - Food Systems Management Concentration
- Home Economics Education (teaching certificate)
- Housing and Interiors

The Foods and Nutrition, General concentration is approved by the American Dietetic Association. Upon graduation the student is qualified for an internship or traineeship in an accredited hospital or other acceptable institution, thus becoming eligible for ADA membership and Registered Dietitian status.

A common core of subjects in liberal education, as well as home economics, is required of all majors. The general education curriculum is designed to provide instruction in the natural and social sciences, the arts and humanities, and in general home economics areas. In all programs, families and families as consumers are the primary foci. The curriculum, based on the general education studies, relates basic knowledge to an understanding of familial needs with regard to food, clothing, housing, management of resources and human interactions and relationships. The program offers educational preparation for professional careers, entry into continuing education programs and graduate study.

The Lucy Brock Child Development Center and Early Learning Center serve as laboratories for home economics majors and child development students. They also provide observational opportunities for students enrolled in courses in other departments.

Home Management Residence is offered each semester and is a requirement for Home Economics Education and Housing and Interiors majors. The residence course may be elected by majors in other home economics areas when space is available.

A minor in home economics consists of 16-18 semester hours scheduled in conference with the department chairperson. Courses for the minor will be designed predominantly in specialized areas.

Students majoring in home economics (with the exception of Child Development majors) are required to make a grade of "C-," (1.7) or better in all home economics courses.

CHILD DEVELOPMENT: Curriculum and Instruction, Home Economics and Psychology cooperate to offer the B.S. Degree in Child Development conferred by the Department of Home Economics upon the completion of the required 21 semester hours multidisciplinary core curriculum (CI 3130 and 4590; HEC 2201, 3101 and 4100; and PSY 3660 and 4560) and courses in **one** of the three areas of concentration: Curriculum and Instruction, Home Economics, or Psychology.

The Home Economics concentration includes 21 semester hours of **Core Requirements** (CI 3130 and 4590; HEC 2201, 3101, and 4100; PSY 3660 and 4560), and 35-41 semester hours of **Major Requirements:** HEC 1000, 1100, 1202, 1300, 1400, 2101, 2103, 2202, 2600, 4101, 4400, and 4900 (6-12 s.h.); and HED 3100.

In addition, the following general education courses are required: PSY 2201; BIO 1101 and 1102; HIS 1101 and 1102; and SOC 1115.

CLOTHING AND TEXTILES: A Bachelor of Science degree in Clothing and Textiles consists of 56-62 semester hours in Home Economics/1000, 1100, 1202, 1300, 1400, 2000, 2001, 2103, 2202, 2300, 2600, 3001, 3002, 3003, 4000, 4002, 4003, 4400, and 4900 (6-12 s.h.); and 10 semester hours in the following related areas: ART 1001 and 2008; MGT 3010; and CMA 1100. The student should also complete PSY 2201 as part of the general education format to meet departmental requirements. A minor in Management or Marketing (18 s.h.) is required.

FOODS AND NUTRITION (General Concentration): A Bachelor of Science degree in Foods and Nutrition with a concentration in Foods and Nutrition, General consists of 51-57 semester hours in Home Economics 1000, 1202, 1300, 1400, 2103, 2202, 2203, 2204, 2600, 3202, 3204, 3205, 4200, 4202, 4203, 4205, 4400, 4900 (6-12 s.h.); 27 semester hours in the following science courses: BIO 1110, and 3308; CHE 1101-1102, 2201, and CHE 4580-4581; HED 3000; and 14 semester hours in the following related courses: ACC 2100; PSY 3302; ANT 2215 or SOC 1115; CS 1430 or STT 3810; and CMA 1100. The student should also complete PSY 2201 and ECO 2030 as part of the general education format. No minor required.

FOODS AND NUTRITION [Food Systems Management Concentration]: A Bachelor of Science degree in Foods and Nutrition with a concentration in Food Systems Management consists of 39-45 semester hours in Home Economics/1000, 1202, 1300, 1400, 2103, 2202, 2203, 2204, 3202, 3204, 3205, 4205, 4400, and 4900 (6-12 s.h.); 19 semester hours of other related courses which include BIO 3308; ECO 2040; 2100; ACC 2100 and 2110; and FIR 2150; 14 semester hours in the following natural science courses: BIO 1101 and 1102, CHE 1101 and 1102. The student should also complete PSY 2201 and ECO 2030 as part of the general education format. A minor in Management includes: MGT 3151, MKT 3050, MGT 3620, MGT 4700 and MGT 4570.

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HOME ECONOMICS EDUCATION: A Bachelor of Science degree in Home Economics with teacher certification consists of the following: 6-8 s.h. of a science sequence in chemistry or biology and ECON 2030 for General Education; FDN 3540, CI 3050, 3131, 4900, PSY 3301, 3302, LRE 4630 and CMA 1100 in Professional Education; and a concentration in one of the following areas:

Consumer and Homemaking Education - 58-60 semester hours which consists of HEC 1000, 1100, 1202, 1300, 1400, 2000, 2001, 2103, 2202, 2300, 2350, 2600, 2700, 4350, 4400, 4609, 4701 and 4900 (6 s.h. minimum), Art 1001, FDN 2200 and a 1-3 s.h. computer course.

OR

*Child Care Services - 57-59 semester hours which consists of HEC 1000, 1100, 1202, 1300, 1400, 2101, 2103, 2201, 2202, 2600, 2700, 3101, 4100, 4400, 4609, 4701, 4900 (6 semester hours minimum), Art 1001, FDN 2200, HED 3100, and a 1-3 semester hour computer course.

OR

*Clothing Services - 55-57 semester hours which consists of HEC 1000, 1100 or 2103, 1202, 1300, 1400, 2000, 2001, 2202, 2700, 3001, 3002, 3003, 4400, 4609, 4701, 4900 (6 s.h. minimum), ART 1001, FDN 2200, MGT 3010 or MKT 3010, and a 1-3 semester hour computer course.

OR

*Food Services - 57-59 semester hours which consists of HEC 1000, 1100 or 2103, 1202, 1300, 1400, 2202, 2203, 2204, 2600, 2700, 3202, 3204, 4205, 4350, 4400, 4609, 4701, 4900 (6 s.h. minimum), Art 1001, FDN 2200 and a 1-3 semester hour computer course.

OR

*Home Furnishings Services - 58-60 semester hours which consists of HEC 1000, 1100 or 2103, 1202, 1300, 1400, 2000, 2202, 2300, 2600, 2700, 3300, 4000, 4307, 4310, 4400, 4609, 4701, 4900 (6 s.h. minimum). Art 1001, FDN 2200 and a 1-3 semester hour computer course.

OR

*Human Services - 58-60 semester hours which consists of HEC 1000, 1100 or 2103, 1202, 1300, 1400, 2000, 2202, 2204, 2350, 2600, 2700, 4101, 4350, 4400, 4609, 4701, 4900 (6 semester hours minimum), Art 1001, FDN 2200, HED 3100, and a 1-3 semester hour computer course.

*To receive certification in any of the occupational concentrations, a student must complete 2000 hours of work experience. However, this is not required for graduation.

In addition to the above, all students must complete proficiencies in Speech, Reading, and English and take both the Core Battery (all three parts) and the Speciality Area of the National Teachers Examination (NTE).

HOUSING AND INTERIORS: A Bachelor of Science degree in Housing and Interiors consists of 59-65 semester hours in Home Economics/1000, 1100, 1202, 1300, 1400, 2000, 2103, 2202, 2300, 2350, 2600, 3300, 3310, 4000, 4310, 4315, 4320, 4350, 4400, and 4900 (6-12 s.h.); and 11 semester hours in the following related courses; ART 1001 and 1002, MKT 3010, and CMA 2600. The student should also complete

ECO 2030, and either PSY 2201 or SOC 1115 as part of the general education format to meet departmental requirements. A required minor for this degree could be Communication Arts, Industrial Education, Sociology, Art, Management, Marketing, or related area depending on the interests of the student.

Courses of Instruction in Home Economics

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1000. Clothing and Consumer Behavior/(3).F;S.

An introductory study of the nature and importance of life styles; communication, economics, psychology, sociology, design and concepts of manufacturing, marketing and retailing as factors which influence consumer acceptance and utilization of fashions. Lecture three hours.

1100. Development and Relationships: Conception through Middle Years/(3).F;S.

A study of the development of children from conception through middle school age, incorporating the psycho-social, physical and cognitive components of development and relationships. Lecture two hours, laboratory two hours.

1202. Meal Management in Introductory Foods/(3).F;S.

Integration of the introduction of food study, with emphases on the scientific principles involved in the identification and conservation of nutrients into a meal management format. Lecture two hours, laboratory two hours.

1300. Housing and Man/(3).F;S.

Introductory study of the nature of man's relationship to his spatial environment. An historical and international overview leading to an understanding of the present conditions of contemporary housing. Study and discussion of physiological, psychological, social and economic aspects of housing needs as well as the dynamics and components of construction. Exploration of the consumer's energy source and housing alternatives. Lecture three hours.

1400. Professional Orientation/(1).F;S.

Factors and personalities influencing the history of home economics; present status of the discipline, future responsibilities and career opportunities. Lecture one hour. Required for all Home Economics majors.

2000. Consumer Textiles/(3).F;S.

Consideration of textile fibers and fabrics from the viewpoint of the consumer. Factors related to raw materials, comparative quality, serviceability and cost of textiles used in apparel and home furnishings. Lecture two hours, laboratory two hours.

2001. Clothing Construction/(3).F;S.

Theories and principles of garment design and structure in relation to figure types and posture, including their application in construction and fit of apparel for men and women. Prerequisite: HEC 2000. Laboratory six hours.

2101. Infancy/(3).F.

Basic concepts, principles and theories of infant development and relationships. Review of research of infant programs. Assessment of and involvement in infant-toddler programs. Lecture two hours; laboratory two hours.

2103. Family Development Over the Life Cycle/(3).F;S.

A study, using the life span approach, of factors affecting individual and family development. Theories, patterns, structures and function of diverse family groupings and interactions/relationships in family processes and development will be considered in relation to current research. Lecture three hours.

2201. Foods and Nutrition for Children/(2).S.

A study of relationships between nutrition and emotional, mental and physical wellbeing of infants and children. Diet planning, food preparation, food purchasing, storage, sanitation and safety standards in child development programs. Lecture one hour; laboratory two hours.

2202. Nutrition and Man/(3).F;S.

A study of the nutrients required by humans for normal physiological function with emphasis on nutrient requirements, sources, digestion, absorp-

tion, metabolism, and functions. Consideration of contemporary nutritional issues to include: overweight; malnutrition; health; natural and organic foodstuffs; athletics' diets; and nutrient requirements throughout life. Emphasis on nutrition consumerism. Lecture three hours.

2203. Organization and Management in Food Service/(3).F.

Factors involved in business policies, organization theory, and principles of management applicable to foodservice institutions. Administrative development including management experience; job analysis, and evaluation; salary and wage structure; employee benefits; personnel selection and employment practices including allocation of labor. Exposure to major leadership styles, effective communication management functions, employee motivation, formal-informal work groups, organizational charts, business social responsibility, and management in the future in food instructions. Lecture three hours.

2204. Advanced Foods and Consumerism/(3).S.

Aesthetics of food as related to family meals; advanced meal management considerations; application of scientific principles in distinctive cuisine; food consumerism. Lecture two hours, laboratory two hours. Prerequisite: HEC 1202.

2300. Furnishings and Interiors/(3).F;S.

A study of furnishings, material, and accessories for individual and family living space. Prerequisites: HEC 1300, 2000. Lecture two hours, laboratory two hours.

2350. Equipment For The Home/(2).F;S.

A study of equipment in relation to production, selection, arrangement, and use for home living. Lecture one hour, laboratory two hours.

2500. Independent Study/(1-4).F;S.

2600. Family Economics/(3).F;S.

A study of the management of human and material resources designed to develop competence as consumers of goods and services in a modern economic society. Lecture three hours.

2700. Orientation to Teaching Home Economics/(1).S.

Survey of N.C. Program of Studies in Home Economics, establishment of teaching files, and a ten-day observation of a home economics program in a school. Participation of student optional with cooperating teachers.

3001. Flat Pattern Design/(3).F;S.

The use of commercial basic patterns in developing slopers for use in designing garments in relation to figure problems and current fashion trends. Prerequisite: HEC 2001. Lecture one hour, laboratory four hours.

3002. Apparel Design and Production/(3).S.

Interrelationship of historic costume, textile materials, design and fashion drawing and illustration as tools of apparel design and production. A study of apparel design and manufacturing processes. Lecture two hours, laboratory two hours.

3003. Fashion Merchandising/(3).S.

Fashion fundamentals applicable to merchandising. Emphasis on the study of materials used in fashion merchandise. Lecture three hours. Prerequisite: HEC 2000.

3101. Enriching Experiences for Young Children/(3).F.

Planning, developing and evaluating creative activities to meet the total needs of young children in preschool programs. Lecture two hours; laboratory two hours.

3202. Quantity Food Production I/(3).F.

Application of food preparation principles to quantity production, menu planning, use and care of institutional equipment, standardized recipes, and service to the public. Lecture one hour, laboratory four hours. Prerequisite: HEC 2203 or permission from instructor.

3204. Quantity Food Production II/(3).S.

In-depth study and practice in planning, preparing, and service of food in institutions such as school foodservice, commercial restaurants, fastfood operations, hospitals, and college feeding facilities. Emphasis on food service purchasing to involve principles and practices. Lecture one hour, laboratory four hours. Prerequisite: HEC 3202.

3205. Nutrition and the Life Cycle/(3).S.

The study of nutritional needs and concerns in the various physiological ages of humanity. Application of the principles of nutrition to pregnancy, lactation, infancy, pre-school and school age years, adolescence, adulthood, and later maturity with discussions of nutrition services and programs available. Lecture three hours. Prerequisite: HEC 2202 and Biology recommended.

3300. Living Space: Planning and Design/(3).F.

Communicating effectively on the professional level ideas and designs of intelligently planned space. Includes a mastery of drafting techniques and equipment, a firm knowledge of construction techniques and procedures, and site and structure planning with regard to terrain, orientation and energy conservation. Culminates in the execution of a full set of working drawings which includes foundation, floor, elevation, detail, and wiring plans. Laboratory six hours. Prerequisites: HEC 1300 and 2300 or permission from instructor.

3310. Housing, Furnishings, and Equipment Needs of Children, the Elderly, and Handicapped/(3). On Demand.

A study of the special housing, furnishings, and equipment needs of children, the elderly, and the handicapped. Emphasis is on the assessment of these needs and the design or alteration of housing, furnishings, and equipment necessary to promote satisfying and worthwhile living. Lecture two hours, laboratory two hours. Prerequisite: HEC 1300, 2300, 3300, or consent of instructor.

3500. Independent Study/(1-4).F;S;SS.**3520. Instructional Assistance/(1).F;S;SS.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-3). On Demand.**4000. Textiles Merchandising: Apparel and Furnishings/(3).F.**

A study of factors influencing the merchandising of textiles for apparel and furnishings. Emphasis on the market structure and major fabric resources for apparel and furnishings. Lecture three hours. Prerequisite: HEC 2000.

4002. Merchandise Display and Promotion/(3).S.

A study of promotion of merchandise through the use of displays and diversified media. Lecture two hours, laboratory two hours. Prerequisite: HEC 3003.

4003. Fashion Buying and Merchandising/(3).F.

The planning, buying and selling of fashion merchandise. Emphasis on knowledge and skills needed for effective decision making in fashion merchandising. Lecture three hours. Prerequisite: HEC 3003.

4100. Administration of Preschool Programs/(3).S.

A study of the role of preschool program administrations in development of interpersonal relationships among staff members, planning for parent involvement, assessing facility and equipment needs, determining adequate guidelines for financial management and funding, and studying legislation and regulations affecting preschool programs. Lecture two hours; laboratory two hour. Prerequisite: HEC 3101 or permission of instructor.

4101. Families in Later Life/(3).S.

In-depth study of factors influencing interrelationships in family development in the later years. Lecture three hours.

4200. Advanced Nutrition/(3).F.

The role of nutrients at the specialized cellular level. Emphasis on intermediary metabolism of carbohydrates, proteins and fats. Scientific planning of adequate dietaries for normal individuals of different economic levels as related to health and efficiency. Lecture three hours. Prerequisites: HEC 3205, CHE 2201, 2202.

4202. Experimental Food Study/(3).F.

A study of the theories of food preparation, the effect of processing on food, the interrelationship of various aspects of food science to nutrition and the judgement of products and establishing of standards. Lecture one hour, laboratory four hours. Prerequisite: HEC 1202.

4203. Diet in Disease/(3).S.

Study of nutrition in the treatment of disease. Changes in metabolism and relationship of changes to dietary requirements and food intake. Prerequisite: HEC 4200, Biochemistry 4580, 4581. Lecture three hours.

4204. Community Nutrition/(3).S.

An introduction to nutrition needs of the community and nutrition services provided to the public through various agencies and organiza-

tions; techniques for determining nutrition needs and methods of extending services to various groups in the community and factors affecting acceptance of these services. Lecture three hours. Offered even numbered years.

4205. Seminar in Food Systems Management/(1).S.

A consideration of contemporary topics in food systems management *via* seminar format. Prerequisite: Senior Status.

4307. Home Furnishings Construction Techniques/(3).S.

Introductory knowledge and skill development related to customer-made home furnishings such as coverings, window treatments, upholstered goods, and wood refinishing. Basic use of the sewing machine is required. Students will furnish own materials for projects. Lecture one hour, laboratory four hours. Prerequisites: HEC 1300, 2000, or permission of instructor.

4310. Residential Interior Design/(3).S.

Exposure to and study of good design. Application of design principles and elements through composition and critiquing processes. Exploration of presentation, drafting and rendering techniques. Development of awareness of sociological, psychological and economic influences on design and market trends and resources. Instruction in career opportunities, business practices, professional conduct, and designer-client interaction. Lecture one hour, laboratory four hours. Prerequisites: HEC 1300, 2300, and 3300 or consent of instructor.

4315. Habitats and Public Policy/(3).S.

Historical and current politico-economic climates and their influences on the physiological, psychological and sociological aspects of housing. The interrelationships of the physical environment with people in urban, suburban, and rural housing situations. Current developments in housing with emphasis on private and federal programs. Lecture three hours.

4320. Contract Interior Design/(3).F;S.

Study of principles and procedures essential to the contract interior design profession. The analysis and solution of contract design problems with emphasis on logistics necessary for systemization and control of operations, money, materials, and commitments. Lecture one hour, laboratory four hours. Prerequisite: HEC 3300.

4350. Management Within the Home/(4).F;S.

A study of the theory and application of management principles with emphasis on experiences in the management of resources to realize individual and group goals. Prerequisites: HEC 1202, 2202, 2350, and 2600. Lecture one hour, laboratory six hours.

4400. Professional Seminar/(1).F;S.

Home economics in the professional world and continuing education job opportunities, interviews, and professional ethics. Development of credentials and portfolios. Lecture one hour. Should be completed before taking HEC 4900.

Senior/Graduate Courses

4540. Nutrition and Metabolism/(3).SS.

The course is designed to provide basic knowledge in nutrition for non-nutrition majors, especially those entering the health professions. The topics included are: energy metabolism, weight loss, nutrition and physical performance, nutritional assessment, nutrition and emotion, factors affecting food selection and disease prevention. Permission of instructor required.

4609. Introduction to Vocational Education/(3).S.

Historical, legislative, and philosophical aspects of vocational education as related to the development and implementation of vocational education programs in secondary education. Introduction to the N.C. Program of Studies for Vocational Programs and entry level occupations in the program areas. Prerequisite: FDN 3040, CI 3050, and PSY 3301. Lecture three hours.

4701. Techniques and Materials/(3).S.

The selection development, and use of procedures and materials for instruction and guidance. Lecture one hour, laboratory four hours. Prerequisites: HEC 1202, 2350.

4709. Middle Grades Occupational Exploration/(3).On Demand.

A study of the newer conceptual and pragmatic models of middle grades occupational exploration. Development of competencies of teachers in relation to the development of models, integration of cluster concepts, Occupational Information Centers, and resources which might be utilized in occupational exploration. Meets requirements for certification and certificate renewal credit for teachers involved in middle grades occupational education. Prerequisites: HEC 4609, CI 3131 or equivalent or permission of instructor. Lecture two hours, lab two hours.

4710. Middle Grades Occupational Exploration Labs/(3).On Demand.

Study of the occupational clusters and the methods and techniques of teaching in each of the middle grades occupational exploration labs. Meets requirements for certification and certificate renewal credit for teachers involved in middle grades occupational education. Prerequisite: HEC 4609, CI 3131, HEC 4709, or equivalent, or permission of instructor. Lecture two hours, laboratory, two hour.

4900. Internship/(6-12).F;S;SS.

Field experience or employment in the area of the student's interest: (1) Child Development; (2) Clothing and Textiles Merchandising; (3) Foods and Nutrition; (4) Food Systems Management; (5) Housing and Interiors; (6) Home Economics

Education: (a) consumer and homemaking education; (b) child care services; (c) clothing services; (d) foods services; (e) home furnishings services; (f) human services. Home Economics Education majors will register for (6) Home Economics Education and one of a, b, c, d, e, or f. Students may enroll in each of the areas for which they meet the prerequisites. All other majors will register according to their major. Prerequisites: Home Economics Education majors will use the Special Course Form for registration; are required to have an overall GPA of 2.0; 20 hours in home economics courses; and approval of internship proposal by advisor and internship supervisor. Other majors: Junior standing; 2.0 overall GPA; designated courses. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Industrial Education and Technology (IET)

Ming Land, Chairperson

The Department of Industrial Education and Technology provides study programs of the technology of our industrial society. The curriculum consists of a series of courses which include learnings related to planning and design, manufacturing, servicing, communications, power, and construction. Through the pursuit of these areas, the student develops a high degree of skill in the performance of the processes involved in these areas. These experiences result in practices that are relevant to the learner and consistent with identifiable needs of an individual.

The Industrial Education and Technology curriculum includes those kinds of knowledge, experiences, and concepts which develop the learner's capacity to interpret and manage the technological society of the future rather than knowledge and experiences peculiar to a time or place. Industrial Education and Technology, therefore, is predicated on the following:

1. The need to understand and manage the systems and products of technology.
2. The need to include motivational activity as an integral process of education.
3. The need to be an informed, productive, and involved citizen.
4. The need to have a positive sense of oneself, which relates to good mental health and personal well-being.

The Industrial Education and Technology Department offers the following degree programs:

Bachelor of Science degree with teacher certification in Industrial Education with concentrations in Secondary Education and/or Trade and Industrial Education

Bachelor of Science degree without teacher certification in Industrial Technology

Bachelor of Technology degree for graduates of two-year technical institutes

Minor in Industrial Technology on the undergraduate level

Master of Arts degree in industrial education with a concentration in secondary school teaching and/or community, junior and technical college teaching

Master of Arts degree in Industrial Technology

Minor in industrial technology on the graduate level

A Bachelor of Science degree (with teacher certification) in Industrial Education with a concentration in Secondary Education consists of 46 semester hours including 1001, 1002, 2004, 2005, 2023, 4609, 4619, 4629; three semester hours from 1106, 2106, 2116, 2126; six semester hours in advanced courses from each of at least two areas, or 12 semester hours in advanced courses from one area; and four semester hours of industrial education and technology electives. Required courses from other departments (not included in the 46 semester hour major) are: one year of physics or chemistry (must be a sequence) MAT 1020 and CMA 1100. For requirements for teacher certification see the Department of Curriculum and Instruction.

A Bachelor of Science degree (with teacher certification) in Industrial Education with a concentration in trade and industrial education consists of 49 semester hours including: 1001, 4609, 4619, 4629, 4639, 4900 (6-12 s.h.); a minimum of 16 semester hours from one of the following skill areas: drafting, electronics, graphic arts, industrial crafts, metals, woods; and 6-12 semester hours of industrial technology electives. Required courses from other departments (not included in the 49 semester hour major) are: one year of physics or chemistry (must be a sequence), MAT 1020, and CMA 1100. For requirements for teacher certification see the Department of Curriculum and Instruction.

A Bachelor of Science degree in Industrial Technology (without teacher certification) with a concentration in General Industrial Technology consists of a minimum of 54-56 semester hours including: 1001; 2011; 3029; 3039; 18 semester hours selected from 1002, 1106, 2004, 2005, 2008, 2023, 2108; 12 semester hours in advanced courses from one technical area: 9-12 semester hours of IE/T electives, which may include an internship. Required courses from other departments (not included in the minimum 54-56 semester hour major) are: one year of physics or chemistry (must be a sequence), MAT 1020 and CMA 1100. A minor of 12-18 semester hours is required.

A Bachelor of Science degree in Industrial Technology with a concentration in manufacturing (without teacher certification) consists of 54-64 semester hours including: 1001, 1106 or 2008, 2004, 2005, 2011, 2023, 2803, 3039, 3607, 3807, 4407, 4557; 8-12 semester hours of IE/T electives; and 4900, an approved internship or IE/T electives of 6-12 semester hours. Required courses from other departments (not included in the 54-64 semester hour major) are: one year of physics or chemistry (must be a sequence), MAT 1020, and CMA 1100. A required minor of 12-18 semester hours is to be selected in consultation with an advisor.

A Bachelor of Science degree in Industrial Technology with a concentration in Electronics (without teacher certification) consists of 48-60 semester hours including: 1001, 2011, 2023, 3033, 3043, 4003, 4023, 4563, 4583; 18 semester hours of IE/T electives; and 4900, an approved internship (optional) of 6-12 semester hours. Required courses from other departments (not included in the 48-60 semester hour major) are: one year of physics or chemistry (must be a sequence), MAT 1020, and CMA 1100. A required minor of 12-18 semester hours is to be selected in consultation with an advisor.

The Department of Industrial Education and Technology, in conjunction with the Department of Communication Arts, offers a B.S. degree (non teaching) in Communications Media with a concentration in printing production management. The core requirements consist of 11-12 semester hours from the following: CMA 2300, CMA 2305 and one course from each of the following two areas: CMA 2316 or CMA 2600 and ART 1001.

The printing production management concentration consists of the above core of 11-12 semester hours and 44-48 semester hours of IE/T courses including: 1001, 1002, 1022, 2012, 2042, 2803, 3012, 3042, 3520, 4552, 4562, 4572, 4582, 4592, and 4900, an "approved" internship of 8-12 semester hours. A minor in management is required. Required courses from other departments (not included in the 44-48 semester hour major) are: one year of physics or chemistry (must be a sequence), MAT 1020, and CMA 1100.

A minor in Printing Production Management consists of 16 semester hours, the courses to be selected by the student in conference with the chairperson or designated advisor.

A minor in Industrial Technology leading to the Bachelor of Science non-teaching degree consists of 16 semester hours, the courses to be selected by the student in conference with the chairperson or designated advisor.

The requirements for a Bachelor of Technology degree are listed under the College of Education.

The Department of Industrial Education and Technology offers a Master of Arts degree in industrial education with concentrations in secondary school teaching and community, junior and technical college teaching. Also a Master of Arts degree is offered in industrial technology (without teacher certification). Persons interested in either of these degrees are requested to consult the *Graduate Bulletin* for further information.

Courses of Instruction in Industrial Education and Technology

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1001. Technical Drafting I/(3).F;S;SS.

Fundamentals of technical drafting including: lettering, sketching, instrument techniques, views and orthographic projection, pictorial drawing, dimensions, sections, and plan analysis. Lecture two hours, laboratory two hours.

1002. Graphic Arts/(4).F;S;SS.

An exploration of basic areas of letter-press printing and photo-offset lithography. Auxiliary areas are the study of type styles, composition techniques, paper technology, printing mathematics, industrial photography, plate manufacture, copier technology and binding techniques. Lecture two hours, laboratory four hours.

1011. Technical Drafting II/(3).F;S.

Analysis of points, lines, and planes; auxiliary views; developments; intersections; precision dimensions; and working drawings. Lecture two hours, laboratory two hours. Prerequisite 1001 or permission of instructor.

1022. Technical Photography I/(3).F;S;SS.

An introductory course in black and white photography which will cover technical information about cameras, films, printing, and processes. Lecture two hours, laboratory two hours.

1106. Introduction to Industrial Crafts/(3).F;S.

An introduction to the materials, processes and techniques used in the design and construction of industrial craft products. Units covered will include an overview of ceramic, leather and non-ferrous metal technology. Lecture two hours, laboratory two hour.

2001. Technical Illustration/(3).F;S;SS.

Techniques of pictorial illustration including: sketching; inking and shading; airbrush techniques; and finished illustrations. Lecture two hours, laboratory two hours. Prerequisite: IET 1001 or 1011.

2004. Introduction to Metals Technology/(3).F;S.

Experience-centered exploration into the sub-fields of metals technology with emphasis given to both the unique and supportive roles the metals industry plays in the total industrial scheme. Specific areas to be covered are: the nature and characteristics of metals, designing metals for manufacturing and production, layout techniques, bench metals, sheetmetal fabrication, fastening techniques, foundry, forging and heat treating. Lecture one hour, lab four hours.

2005. Wood Technology/(4).F;S.

Introduction to woodworking with wood and the woods industry; care and use of basic woodworking tools and machines; processes and techniques involved in the planning, designing, jointing, shaping, and finishing of wood materials in the furniture industry. Lecture two hours, laboratory four hours.

2008. Plastics Technology/(3).S.

Introduction to materials and processes of the plastic industry. Laboratory experiences will include a variety of techniques and procedures utilizing these materials and processes. Lecture two hours, lab two hours.

2011. Introduction to Industrial Design/(3).F;S.

Processes and methods of design with emphasis on the designer's role in industry. Included are principles of design applied to planning, sketching, drawing and construction of projects and/or problems for all areas of Industrial Education and Technology. Lecture two hours, laboratory two hours.

2012. Production Techniques in Graphic Arts/(3).S.

Theory and application of different production techniques in photo offset lithography and auxiliary areas. The course will operate in the same manner as a commercial print shop. Lecture one hour, laboratory four hours.

2022. Technical Photography II/(3).F;S.

A continuation of Technical Photography I that covers advanced black and white photography processes and an introduction to color photography. Lecture two hours, lab two hours. Prerequisite: IET 1022.

2023. Introduction to Electricity/Electronics/(4).F;S.

An introduction to electricity and electronics through applied AC and DC theory. Course content will include Ohm's Law, Kirchhoff's Laws, Power Laws, Network Theorems, discrete electronic components and schematic diagrams. Theory to be reinforced by practical laboratory experimentation emphasizing the use of the volt-ohm-meter and oscilloscope. Lecture two hours, laboratory four hours.

2042. Bookbinding/(2).F;S.

An exploration of the methods of construction of standard types of books, pamphlets, and magazines. Emphasis is on common practices and materials. Lecture one hour, laboratory two hours.

2106. Leather Technology/(3).F;S.

Exploratory experiences with leather materials that emphasize the application and forming processes for industrial and personal applications. Specific areas covered are: early beginnings, geographic sources, animal sources, preparing hides and skins, tanning processes, industrial products and processes, designing, cutting tools, carving, sewing, fastening and finishing. Lecture two hours, lab two hours.

2108. Introduction to Power and Energy Technology/(3).F;S.

An introduction to the study of sources, conversion, controlling, transmitting, and using power and energy. Emphasis will be placed on external, internal and electrical power and energy converters. Lecture two hours, lab two hours.

2116. Ceramic Technology/(3).F;S.

Exploratory experiences with ceramic materials that emphasize the application and forming processes for industrial use. Specific areas covered are: materials, construction, jigging, slip casting, molding, tech. glazing, kilns, and firing tech. Lecture two hours, lab two hours.

2126. Nonferrous Metal Technology/(3).F.

Exploratory experiences with nonferrous metals that emphasize the application of materials and forming processes for industrial use. Specific areas covered are: Characteristics of nonferrous metals, alloying, forming techniques, fabrication techniques, casting, metal removal techniques, metal fusion techniques, metallic buildup, coloring, and finishing. Lecture two hours, lab two hours.

2188. Transportation Systems and Devices/(3).S.

A study of the history and development of transportation systems and devices and the impact of transportation technology on society. The student will explore the economics and efficiency of air, land, and water transportation. Lecture two hours, lab two hours.

2500. Independent Study/(1-4).F;S;SS.

Approved contract is required.

2708. Construction Technology/(3).F.

This course will provide students with an introduction to technical, economic and managerial aspects of the construction industry. Primary emphasis will be on the tools, materials, processes and contemporary trends in residential construction. Lecture one hour, lab four hours.

2803. Introduction to Industrial Applications of Computers/(3).F;S.

An introduction to industrial applications of main-frame and microcomputers; to include BASIC programming, an overview of machine codes, input/output devices, and common industrial applications such as computer-aided drafting (CAD) and computer-aided manufacturing (CAM). Lecture two hours, laboratory two hours.

3004. Welding/(3).S.

This course covers information about welding safety, equipment, materials, and applications of arc, oxy-acetylene, and inert gas techniques to include typical welding positions and welding ferrous and nonferrous metals. Lecture two hours, lab four hours.

3012. Screen Process Printing/(2).F;S.

An exploration of the construction of silk screen printing equipment and various methods and techniques of printing on different materials through various media. Lecture one hour, laboratory two hours.

3021. Architectural Standards and Procedures/(3).F;S.

Introduction to and application of information resources in architectural planning and procedures. Lecture one hour, lab four hours. Prerequisite: IET 2001, or permission of instructor.

3025. Advanced Wood Technology/(4).F;S.

Advanced machine tool operations, furniture construction, and a study of general materials used in the furniture industry. Lecture two hours, laboratory four hours. Prerequisite: IET 2005.

3029. Society and Technology/(3).S.

The effects of technology upon human beings. Aids in developing a degree of technological literacy and understanding of our complex society. Lecture three hours.

3033. Active Circuits/(3).F;S.

An introduction to solid state electronics including diodes, bi-polar transistors, and junction field effect transistors. Circuit theory to include power supplies, amplifier circuits, oscillator circuits, and switching circuits. Theory to be reinforced through practical laboratory experimentation. Lecture two hours, laboratory two hours. Prerequisite: IET 2023 or equivalent.

3039. Materials/(3).S.

The structure, characteristics, testing, and application of typical industrial materials. This course also includes the examination of strength of materials as it applies to manufacturing and production techniques. Lecture two hours, lab two hours.

3042. Cold Type Composition/(2).F;S.

The study of cold type composing machines. The course includes several cold type strike-on machines and photo composing machines with the basics of producing mechanicals. Lecture one hour, laboratory two hours.

3043. Integrated Circuits/(3).S.

An introduction to Metal Oxide Semiconductor theory and Integrated Circuits, including Optoelectronic devices and members of the Thyristor family. The course will include theory and application for analog integrated circuits, the MOSFET, UJT, PUT, SCS, SCR, Diac, and Triac. Theory to be reinforced through practical design and laboratory experimentation. Lecture two hours, laboratory two hours. Prerequisite: IET 3033 or equivalent.

3054. Metals Technology/(3).F of odd years.

An indepth, experience-centered examination of metal processing techniques. This course concentrates on advanced machine and non-machine metal manufacturing techniques. Emphasis will be placed on individual problem solving. Lecture one hour, laboratory three hours. Prerequisite: IET 2004.

3408. Alternative Energy Systems/(3).F.

This course will examine a variety of energy conversion systems. Advantages and disadvantages of the technical, economic, and environmental aspects of each system will be discussed. Water, wind, solar, photovoltaics, energy conservation and bio-fuels will be the primary focus of attention. Students will learn to measure these resources, compute the potential energy output and will gain an awareness of the various technical options available for collecting, converting, storing and controlling these renewable energy resources. Lecture two hours, laboratory two hours.

3418. Solar Design/(3).S.

This course is designed to provide students with an understanding of the basic principles and contemporary uses of solar energy, including: photovoltaics, and domestic water and space heating systems. Various design tools will be used to determine heating requirements, potential solar gain, proper solar/conservation mix and proper levels of thermal mass for residential and light commercial buildings. Lecture three hours.

3500. Independent Study/(1-4).F;S;SS.

Approved contract is required.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract is required.

3530-3549. Selected Topics/(1-3).On Demand.

3607. Machine Systems and Controls/(3).F.

A study of mechanical systems and controls used in industry today. Basic mechanical, electrical, hydraulic, and pneumatic systems and their components will be included in the classroom activities. Lecture two hours, laboratory two hours. Prerequisite: IET 2004, IET 2005 and 2023.

3781. Machine Drafting/(3).S.

Applying competencies acquired in the technical drawing program to the specifics of machine drafting. Learning to deal with the materials and processes of machine drafting. Lecture two hours, lab two hours. Prerequisite: IET 1001 or 1011.

3807. Industrial Maintenance and Safety/(3).S.

The study and application of maintenance and safety procedures that relate to manufacturing. Classroom/laboratory problems will include units on state and national safety regulations pertaining to manufacturing, preventive-emergency problems that include: shafts, bearings, belts and pulleys, sharpening and grinding, electrical and mechanical problems. Lecture two hours, lab two hours. Prerequisites: IET 2004 and 2005.

4001 - CADD (see insert)

4003. Linear Systems/(3).F.

The course will revolve around linear integrated circuits including voltage regulators, voltage reference, voltage comparators, timers, operational amplifiers, industrial applications, automotive applications, and consumer products applications. Theory to be reinforced by laboratory construction of circuits utilizing linear IC'S. Lecture two hours, laboratory two hours. Prerequisite: IET 3033 or equivalent.

4021. Residential Drafting/(3).S.

A professional approach to preparing client centered review drawings for approval and sales purposes. Lecture one hour, laboratory four hours. Prerequisite: IET 3021.

4023. Digital Systems/(3).S.

An introduction to combinational and sequential digital logic with an emphasis on TTL and CMOS integrated circuits. The course will include gates, flip-flops, multiplexers, encoders, decoders, shift registers, counters, arithmetic logic units, memory units, and an introduction to microprocessors. Circuit simplification by Boolean algebra and Karnaugh mapping. Theory to be reinforced by practical design and laboratory experimentation. Prerequisite: IET 3033 or equivalent.

4407. Production Planning and Control/(3).F.

An applied study of process planning and production control systems used in modern manufacturing. To include such topics as: production planning, automation, time and motion study, order control, flow control and quality control, and plant layout. Lecture two hours, laboratory two hours. Prerequisite: IET 2011 and 3607, or permission of the instructor.

*Senior/Graduate Courses***4551. Computer Aided Drafting and Design/(3).F;S.**

Introduction to the underlying concepts, mathematics and generalization techniques for two and three dimensional graphics with the microcomputers. Two hours lecture, two hours lab. Prerequisites: IE/T 1001, IE/T 2803 or equivalent.

4552. Printing Estimating/(2).F.

The study of the many facets of a printing estimator including estimating paper, ink, artwork, copy preparation, copyfitting, composition, photocopy, image assembly, platemaking, presswork, binding and finishing. Also included is the marketing analysis of the pricing procedure and production standards. Lecture two hours.

4553. Research in Modern Electronics/(2).F;S;SS.

Individual problems in modern electronics to be determined by need, experience, and interest. Lecture one hour, laboratory two hours. Prerequisite: IET 3023.

4555. Contemporary Industrial Finishing/(2). On Demand.

Care and maintenance of finishing equipment; selection and use of spray equipment; preparation of the surface to be finished, staining and filling undercoating, top coating, oil finishes, application of simple and synthetic finishes. Lecture one hour, laboratory two hours. Prerequisite: IET 2005.

4557. Manufacturing Production Techniques/(3).S.

The design, development, and mass production of a manufactured product. To include market survey, design selection, prototype construction, development of jigs and fixtures, implementation of process planning and control systems, and the actual production of a product. Lecture one hour, laboratory four hours. Prerequisite: IET 4407 or permission of the instructor.

4560. Problems and Processes of Industrial Arts and Technical Education/(1-2).F;S;SS.

Individual research on problems determined by the student's need.

4562. Paper and Printing Substrates/(2).S.

This course is designed to provide the student with an understanding of how printing substrates are produced, the many different types and for what purpose they have been designed. Lecture two hours.

4563. Computer Programming and Instrumentation/(3).F.

A study of computer application and programming concepts utilizing the BASIC and PASCAL languages. Elementary skills in user-written programs will be developed as well as an understanding of the use and application for manufacturer supplied software. Lecture two hours, laboratory two hours. Prerequisite: IET 4023 or equivalent.

4564. Introduction to Metallurgy/(3).F of even years.

Study of ferrous and non-ferrous metals and their alloys, physical characteristics, phase diagrams, relation of properties to micro-structure. Lecture three hours, laboratory arranged.

4565. Applied Furniture Design and Construction/(4).S.

The study of traditional and contemporary furniture, and its importance, design, and construction procedures. The student may design and construct a piece of traditional or contemporary furniture. Lecture two hours, laboratory four hours. Prerequisite: IET 3025.

4572. Printing Production Management/(3).S.

Practical management techniques and experience in the areas of sales, finance and high, middle, and lower level personnel management in an active printing production facility. This course will be taught concurrently with IET 2012 Production Techniques in Graphic Arts. Lecture one hour, laboratory four hours. Prerequisite: IET 2012.

4576. Production Techniques in Industrial Crafts/(3).F.

An analysis of functional design and production methods used in industrial crafts. Individual projects designed to employ various technical and mechanical methods of production to leather, ceramic, metals and combination of these craft materials. Lecture two hours, lab two hours. Prerequisites: IET 2106, 2116, 2126 or permission of instructor.

4582. Industrial Photo-Lithography/(3).F;S;SS.

Advanced studies in cold-type composition (both photographic and mechanical) and offset press operation. A major emphasis is the area of industrial photography up to four color separation and printing; auxiliary areas are the use of test equipment for negatives, plates, and the technology of paper and its uses in the industrial scheme. Lecture one hour, laboratory four hours. Prerequisite: IET 1002.

4583. Microprocessor Technology/(3).S.

A detailed study of the architecture of the microprocessor and microcomputer. The course will include computation, machine representation of information, storage structure, buses, input/output, interfacing, peripheral devices, and instruction sets. Theory to be reinforced by hands on experience. Lecture two hours, laboratory two hours. Prerequisite: IET 4023 or equivalent.

4592. Advanced Screen Process Printing/(3).F;S;SS.

Advanced laboratory practice in transfer and direct photographic screen printing with emphasis on multicolor printing, cylinder printing and finishing techniques. Lecture one hour, laboratory four hours. Prerequisite: IET 3012.

4596. Design and Material Development for Industrial Crafts/(3).F.

An analysis of the development processing, and finishing techniques used for ceramics, leather, and non-metal materials. Emphasis is on exploratory problems and the application of these materials to the design of industrial craft products. Lecture two hours, lab two hours. Prerequisites: IET 2106, 2116, 2126 or permission of the instructor.

4601. Advanced Technical Illustration/(3).F.

Indepth exploration in technical illustration and sketching. Included will be freehand and template isometric drawing. Units will include: layout and construction methods, perspective, airbrush ap-

plications, and finished illustrations. Lecture two hours, laboratory two hours. Prerequisite: IET 2001 or equivalent.

4609. Introduction to Vocational and Industrial Education/(3).F.

Vocational and industrial education in the modern school and how they affect general education. Historical and legal impacts and development. Organization for effectiveness in public education. Lecture three hours.

4611. Product Design/(3).S.

The design and development phases in producing manufactured products. Problem identification, preliminary ideation, design refinement, drafting standards and communication will be included for all units. Units include: feasibility studies, material and processes, anthropometric data, engineering psychology, model testing and analysis, decision processes and economics. Prerequisite: IET 2011 or permission of instructor. Lecture two hours, lab two hours.

4619. Curriculum Development in Vocational and Industrial Education/(3).S.

Procedures for identifying and developing curricular materials for vocational and industrial education. Techniques of revising existing curriculum to satisfy current or emerging technology. Sources and resources used in developing valid curriculum. Lecture three hours.

4628. Solar Energy Technology/(3).F.

This course is designed to provide students with an opportunity to apply the basic principles and concepts of using the sun's energy. Students will develop skills in the use of tools, materials, and processes which effectively and efficiently capture and use the sun's energy. Contemporary trends in Energy management/conservation and solar technology will be discussed. Lecture one hours, laboratory four hours. Prerequisites: 3418 or permission of the instructor.

4629. Safety and Management in Vocational and Industrial Education/(3).F;SS.

Industrial management, safety and maintenance and their effect on vocational and industrial education. Organization for effective and safe maintenance of an occupational laboratory within the confines of OSHA and local regulatory mandates. Lecture three hours.

4638. Contemporary Problems in Appropriate Technology/(3).S.

This course is designed to provide students with an overview of contemporary problems facing the Appropriate Technology movement such as affordable and efficient alternative energy systems, small scale production systems, waste management and recycling, bioregional development, community and shelter design and technology transfer methodology. Each student will have the opportunity to explore in-depth a problem of their choosing and will be given guidance in the identification, definition and analysis of their chosen problem. Both library research and prototype or model construction will be required. Lecture three hours. Prerequisite: 3408 or permission of the instructor.

4639. Vocational and Industrial Student Organization/(3).S.

Vocational student club organization and management. Leadership training through student organization. Lecture three hours.

4649. Cooperative Vocational and Industrial Education/(3).S;SS.

Organization and administration of a cooperative program for vocational or interdisciplinary areas. Included are locating and maintaining training stations and developing training plans. Lecture three hours.

4900. Internship/(3-12).F;S;SS.

Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Military Science (MS)

Charles B. Michael, Chairperson

The Army ROTC program has been developed to give college men and women training and experience in the art of organizing, motivating, and leading others. This program includes instruction to develop self-discipline, physical stamina, and poise, qualities that are an important part of leadership and that contribute to success in any career.

The first two years of military training in the Reserve Officer Training Corps are strictly voluntary for any student who is a United States citizen. An individual taking these ROTC courses incurs absolutely no obligation to future military service. These two years comprise the Basic Course, which is normally completed during the freshman and sophomore years.

Students completing their sophomore year may attend the ROTC Basic Camp of six weeks duration in lieu of completing the Basic Course. However, selection for attendance at this camp is competitive nationally.

The Advanced Course is offered on a voluntary basis during the junior and senior years to those cadets meeting the necessary qualifications. Upon successful completion of the Advanced Course including the ROTC Advanced Camp, which is six weeks duration at Fort Bragg, North Carolina and usually taken between the junior and senior year, each cadet is commissioned as a second lieutenant in the U.S. Army. Outstanding students designated as Distinguished Military Students may be selected for direct appointment in the Regular Army.

A minor in military science consists of 19 semester hours including 3001, 3002, 3003, 4001, 4002, and three semester hours from a 3000 or 4000 level course in geography, history, political science, psychology, or sociology. A semester of student teaching or student internship may be substituted for the latter three hours.

Two-, three-, and four-year scholarships are offered by the Department of the Army. These scholarships pay the full cost of tuition, a flat rate fee for textbooks, lab fees and other educational expenses for the duration of the award. They also provide a subsistence allowance of \$100 a month up to 10 months of each academic year for which the award is in effect, and pay for the students' first trip from home to the university. Participation in the Army ROTC scholarship program does not preclude the holding of other scholarships. More information may be obtained from the Professor of Military Science.

Basic Course Requirements

A candidate for ROTC training must:

- a. Be of good moral character.
- b. Be a citizen of the United States.
- c. Be able to graduate before 30 years of age.
- d. Be physically able to participate in the program of instruction.
- e. Meet other entrance requirements as determined by the department chairperson, current Army regulations, and University policies.

A student who does not meet all of the above requirements should consult with the Department of Military Science to determine if waivers can be granted.

A waiver of attendance of Military Science I, and/or Military Science II may be granted for previous ROTC training or military service upon application.

Texts and Uniforms

Basic Course students do not receive monetary allowances. Texts and uniforms are furnished by the government. Students will be required to reimburse the government for loss of uniform items or other equipment.

Advanced Course Requirements

A candidate must:

- a. Have a minimum of two years remaining at the University.
- b. Meet all other requirements for the Basic Course.
- c. Meet medical requirements for Advanced Course.
- d. Possess qualifications for becoming an effective Army officer.
- e. Achieve a passing score on ROTC qualifying examination.

- f. Have satisfactorily completed the Basic Course, received a waiver in lieu thereof, or have satisfactorily completed the Basic Camp, or have served as an enlisted person in the armed forces with an honorable discharge.
- g. Have satisfactorily completed loyalty requirements.
- h. Agree to enlist in the United States Army Reserve, accept a commission if offered, and serve three years on active duty if required.
- i. Meet other requirements as determined by the department chairperson, current Army regulations, and University policies.

A student who does not meet all of the above requirements should consult with the Department of Military Science to determine whether waivers can be granted.

Texts and Allowances

Each cadet enrolled in the Advanced Course receives subsistence pay at the rate of \$100 per month up to \$1,000 per academic year. Textbooks and uniforms are furnished to all cadets. They are paid a travel allowance to and from Advanced Camp. While at camp, cadets are paid approximately \$700. The pay and allowances received while in the Advanced Course total approximately \$2,700.

Courses of Instruction in Military Science

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1001, 1002. Military Science I, Basic Course/(1-1).F;S;SS.

Basic military subjects with emphasis on US Army and ROTC organization, objectives of the Army, leadership and management, individual weapons and marksmanship, principles of war, evolution of weapons and tactics, rules of warfare.

Leadership Laboratory (2 hours) Consists of skill training and confidence building in subjects such as rappelling, stream crossing, assault boat training, aircraft orientation, military weapons firing, and night compass course, orienteering, and other selected subjects.

2001, 2002. Military Science II, Basic Course/(2-2).F;S;SS.

Use of maps and compass for land navigation and orienteering techniques. American military history with emphasis on modern strategy and world situation. Prerequisites: MS 1001-1002 or permission of department chairperson. Lecture two hours, laboratory two hours.

2003. ROTC Summer Camp, Basic Course/(5).SS.

Taken summer following sophomore year. Training conducted at designated US Army installation. This training provides cadets with practical experience in leadership and management and the subjects covered in Military Science I and Military Science II with the exception of American Military History the following school year. Prerequisite: Completion of sophomore year of college.

2500. Independent Study/(1-4).F;S;SS.

3001, 3002. Military Science III, Advanced Course/(3-3).F;S.

Leadership, military principles of instruction, small unit tactics, communication and pre-camp orientation. Prerequisite: successful completion of the Basic Course or its equivalent as approved by the professor of military science. Selection by the department. Lecture 3 hours, lab 2 hours.

3003. ROTC Summer Camp, Advanced Course/(4).SS.

Usually taken summer following junior year. Training conducted as designated US Army installation. This training provides cadets with practical experience in leadership, military teaching, weapons, qualifications, and communications. To receive credit, a student must register and pay a fee at the University. Prerequisite: Successful completion of MS III.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prere-

quisite: junior or senior standing. May be repeated for a total credit of three semester hours. Approved contract required.

3530-3549. Selected Topics/(1-3). On Demand.

4001, 4002. Military Science IV, Advanced Course/(3-3).F;S.

A study of the officer personnel management system, Army administration, military law, staff operations and procedures, logistics, personal affairs, service customs, and officer orientation. MS IV cadets normally serve as cadet officers in the cadet corps and are responsible for the leadership laboratory instruction. Prerequisite: MS 3001-3002 or permission of Professor of Military Science. Lecture three hours, lab two hours.

Department of Music (MUS)

B.G. McCloud, Chairperson

The Department of Music is a full member of the National Association of Schools of Music. The requirements set forth in this catalog are in accordance with the published regulations of the National Association of Schools of Music.

The Department of Music sees as its objectives the development of those elements which relate to the teaching, creation, business, and appreciation of music. The teaching objective is partially realized through those curricula leading to state certification in either general music education or instrumental music education, through the Community, Junior and Technical College Teaching; General Music Education; Performance; and Pedagogy concentrations offered by the department, and through the undergraduate curricula designed to accommodate those who desire to be private studio teachers or church musicians. The creative objective is satisfied by any of the performance programs along with those opportunities which are available for prospective composers. The business objective relates to those who desire to combine music with the numerous aspects of the music business. The department also makes every effort to fulfill its role as the prime purveyor of music for the University by presenting numerous performances by soloists and ensembles along with music courses of a general nature which may be of interest to the non-musician.

Entrance Requirements for Freshmen

Applied Music: An audition in the principal or major performing area is required of all incoming students. Should the appropriate performance level not be met, those students who are deficient will be required to do remedial applied music until the proper level has been attained.

Theory: All new students will take a theory placement examination. The results of this examination will determine the level to which the new student will be assigned.

Entrance Requirements for Graduate Students

As appropriate to their individual program choice, all entering graduate music majors will demonstrate by examination their understanding and achievement levels in music theory, music history and literature, applied performance, conducting and score reading, performance and music education where it applies. Any deficiency noted may require courses or individual study in the area of the deficiency prior to admission to candidacy for the degree.

Degrees

The Department of Music offers the Bachelor of Science, Bachelor of Music and Master of Music degrees. In addition to the general education requirements of the University the following music courses are required for the various curricula.

The Bachelor of Music degree in music education with a concentration in General Music Education (K-12) and/or Instrumental Music Education (K-12) consists of a minimum of 65-66 semester hours of music in the following areas: music history and theory, 24 semester hours (MUS 1001-1002, 2001-2002-3001, 2611-2612, 3611-3612); applied principal 14 semester hours; ensembles seven semester hours; MUS 1030, 3020, 3035, 3036, and specific requirements as follows (piano principals: MUS 1037-1038, 2030, 2037-2038, 3022, 3032, 3040, 4031-4032) (Voice principals: 1040-1041, 1044, 2030, 2040-2041, 3022, 3032, 4031-4032) (Instrumental principals: 1028, 1029, 1031, 1032, 1035-1036, 1037, 1040-1041, 2040-2041, 3021, 3031). (MUS 1001-1002-2001 and 2002 require a minimum grade of C-.)

All students enrolled in teacher education programs are required to meet certification-criteria as set by the North Carolina State Department of Public Instruction prior to their graduation from Appalachian State University. For requirements in teacher education, see the Department of Curriculum and Instruction.

The Bachelor of Music degree in performance is built around 64-79 semester hours with the following concentrations:

Church Music is comprised of 76-79 semester hours of music courses in the following areas: music history and theory, 24 semester hours (MUS 1001-1002, 2001-2002-3001, 2611-2612, 3611-3612); applied principal 24 semester hours; eight semester hours of ensembles; other music courses as follows: (MUS 1040-1041, 2040-2041 vocal majors only); (MUS 1037-1038, 2037-2038, 3004 organ and piano majors only); MUS 1044, 2004, 4031-4032, 3020-3022, 4004 and a minimum of two semester hours of MUS 2900. (MUS 1001-1002-2001 and 2002 require a minimum grade of C-.)

Composition and Theory consists of a minimum of 76 semester hours of music as follows: Music theory, 22 semester hours (MUS 1001-1002, 2001-2002-3001, six semester hours of selected topics MUS 3530); applied principal 16 semester hours; composition 12 semester hours (MUS 2003 and 10 semester hours of applied composition); a minimum of four semester hours must be taken in secondary applied and/or methods (MUS 1040-1041, 2040-2041 or piano proficiency); eight semester hours of ensembles; music history and literature eight semester hours (MUS 2611-2612, 3611-3612); and MUS 3020-3021 or 3022, and a three semester hour independent study in orchestration. Senior Recital, half will be in applied principal and half will be in composition. Required courses from other departments (not included in the 76 semester hour major) are PHY 1105 and ART 2012-2013. (MUS 1001-1002-2001 and -2002 require a minimum grade of C-.)

Piano Pedagogy requires a minimum of 64 semester hours in music from the following areas: music history and theory, 24 semester hours (MUS 1001-1002, 2001-2002-3001, 2611-2612, 3611-3612); applied principal 24 semester hours; ensembles eight semester hours (four semester hours must be accompanying and two semester hours must be piano); MUS 3020, 4619; piano pedagogy (independent study minimum of two semester hours), and supervised teaching (independent study minimum of two semester hours). (MUS 1001-1002-2001 and -2002 require a minimum grade of C-.)

Voice and Instrument consists of 65-71 semester hours of music in the following areas: music history and theory 24 semester hours (1001-1002, 2001-2002-3001, 2611-2612, 3611-3612); applied principal 32 semester hours: ensembles eight semester hours; MUS 3020; for non-pianists, MUS 1040-1041; for vocal majors MUS 2040-2041 and MUS 1044. (MUS 1001-1002-2001 and -2002 require a minimum grade of C-.)

The Bachelor of Science degree in Music Industry Studies offers five different concentrations. Thirty-one to forty-one semester hours of requirements in music, common to all concentrations, are: 4-7 s.h. in music theory (C- minimum in 1001 if additional theory is required), 4 s.h. in music literature electives, 4 s.h. in one applied music concentration and the achievement of Level I, 7 s.h. of performance ensembles, and the following courses: Music 1040-1041 or 1042-1043, 1420, 2423 (2 s.h. min.), 3420 (2 s.h. min.) and 4900 (8 s.h. min.). In addition to these courses one of the following concentrations must be chosen:

Music Merchandising (23 s.h. plus an 18 s.h. Marketing Minor) Music 1028 or 1029, 1030, 1032, 1035 or 1036, 1410, 2400, 2401; PSY 4551 or 4671; CMA 1100 and 3152; IET 2803.

OR

Music Production and Marketing (28 s.h. plus an 18 s.h. minor in Marketing) Music 1002, 1028 or 1029; 1030, 1032, 1035 or 1036, 1424, 2421 (2 s.h. min.); PSY 4551 or 4671; CMA 1100 & 3152; IET 2023 & 2803.

OR

Music Management and Promotion (20 s.h. plus an 18 s.h. minor in Management) Music 1028 or 1029, 1030, 1032, 1035 or 1036, 1425 and 2422 (2 s.h. min.); PSY 4551 or 4671; CMA 1100 & 3152; IET 2803.

OR

Music and Sound Electronics (27 s.h. plus a 19 s.h. minor in Industrial Technology) Music 1028 or 1029, 1030, 1032, 1035 or 1036, 1424, 2400 or 2401; PSY 4670; CMA 1100 and 3152; Econ 2030; ACC 2100; MKT 3010. A minor of 19 s.h. in Industrial Technology consists of IET 1001 or 1011, 2023, 2803, 3033, 3043 and 4023.

OR

Wind Instrument Studies (23 s.h. plus a 19 s.h. minor in Industrial Technology) Music 1028, 1029, 1032, 1035, 1036, 1410, 2400, 2410, 2900 (Internship in Apprenticeship in Instrument Repair); Econ 2030; ACC 2100; MKT 3010. A minor in Industrial Technology consists of IET 1001 or 1011, 2004, 2005, 2008, 2126 and 2803.

The Department of Music offers two degrees under the Master of Music degree: the Master of Music degree with concentrations in Community, Junior and Technical College Teaching and General Music Education; and the Master of Music with a concentration in Performance/Vocal or Instrument. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Applied Music

Applied music majors and principals are required to take a jury examination before the faculty in their applied area at the end of each semester. The jury functions as an advisory group as far as the applied music grade is concerned. Students will also be evaluated as to the level they have attained at the end of each semester. The level of achievement required in order to complete an applied music major or principal in the various areas is as follows:

Music Industry Studies	Level I
Music Education	Level IV
Performance	
Church Music	Level VI
Composition and Theory	Level IV
Piano Pedagogy	Level VI
Vocal or Instrumental	Level VIII

All music majors except those in the industry curriculum will further demonstrate satisfactory proficiency in their major or principal performing medium by presenting, during the senior year, either an individual recital or a joint program with no more than three participants.

Students presenting recitals which are used to fulfill departmental requirements must be students of applied music faculty members in the Department of Music at Appalachian State University at the time of the recital.

Piano Proficiency

All music education majors must satisfy piano proficiency requirements before doing their student teaching.

Recitals and Concerts

The Department of Music presents a large and varied number of solo and ensemble programs through the year. Other programs are regularly brought in to the University through the Artist and Lecture Series. Students are urged to attend as many programs as possible. All music majors are required to register for and successfully complete MUS 1500 (Performance Seminar) for each semester in which they are enrolled as a music major.

Ensembles

Music majors are required to be enrolled either for credit or non-credit in an appropriate ensemble each semester in which they are full-time students. No music major will be allowed to participate in more than three ensembles in any semester in which they are full-time students. No music major will be allowed to participate in more than three ensembles for non-credit or for which they are not enrolled.

Minor in Music

A minor in music consists of 16 semester hours above general education requirements, the courses to be selected in conference between the student and the department chairperson.

Courses of Instruction in Music

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

Applied Music (Secondary) 1301-1399; 2301-2399; 3301-3399; 4301-4399; 6301-6399/(1-1).F;S;SS.

One 30-minute individual lesson and six practice hours per week. Additional fee.

Applied Music (Major-Principal) 0401-0499; 1401-1499; 2401-2499; 3401-3499; 4401-4499; 6401-6499/(2-4).

F;S;SS.

Two 30-minute individual lessons or equivalent in individual and/or class lessons and six practice hours per week for each semester hour credit. Additional fee.

1000. Elements of Music Theory/(3).S.

Designed for students below the freshman level theory and carries Elementary Education and music minor credit but no credit toward music major programs. Lecture and demonstration five hours.

1001. Basic Musicianship 1/(4).F.

A course in the fundamentals of music integrating basic materials and skills. The study of diatonic harmony is approached through aural training, sightsinging, partwriting, and analysis. Aural skills are developed through computer-assisted instruction. Lecture and demonstration five hours.

1002. Basic Musicianship II/(4).S.

A continuation of Basic Musicianship I, completing the study of diatonic harmony and introducing chromatic harmony. Aural training, sightsinging, partwriting, and analysis are integrated. Aural skills are developed through computer-assisted instruction. Lecture and demonstration five hours. Prerequisite: MUS 1001 with a minimum grade of "C-" (1.7)

1028. Brass Class I: Trumpet and French Horn/(1).F;S.

Group instruction in the fundamental principles of trumpet and French horn technique. Lecture and demonstration two hours.

1029. Brass Class II: Trombone, Euphonium and Tuba/(1).F;S.

Group instruction in the fundamental principles of trombone, euphonium and tuba. Lecture and demonstration two hours.

1030. String Class/(1).F.

A presentation of the fundamental principles involved in playing and teaching stringed orchestral instruments. Lecture and demonstration two hours. Be enrolled in or have completed Music 1001.

1031. Advanced String Class/(1).S.

A continuation of the fundamentals involved in playing and teaching stringed orchestral instruments with the addition of stringed and full orchestra music reading. Emphasis is placed on exploration of string literature and bowing problems found in the music of elementary and secondary schools. Prerequisite: MUS 1030. Lecture and demonstration two hours.

1032. Percussion Class/(1).F;S.

Group instruction in the fundamental principles of performance on the standard percussion instruments. Lecture and demonstration two hours.

1035. Woodwind Class I: Clarinet and Saxophone/(1).F;S.

Group instruction in the fundamental principles of clarinet and saxophone technique. Lecture and demonstration two hours.

1036. Woodwind Class II: Flute, Oboe and Bassoon/(1).F;S.

Group instruction in the fundamental principles of flute, oboe and bassoon technique. Lecture and demonstration two hours.

1037. Voice Class/(1).F;S.

A presentation of the fundamentals of singing for teaching and performance. Lecture and demonstration two hours.

1038. Voice Class II/(1).S.

A continuation of materials covered in Music 1037 but with more emphasis on individual problems. Lecture and demonstration two hours. Prerequisite: MUS 1037.

1040. Piano Class I/(1).F.

Group instruction in the fundamental principles of piano technique. Lecture and demonstration two hours.

1041. Piano Class II/(1).S.

Group instruction in piano technique. Lecture and demonstration two hours. Prerequisite: MUS 1040.

1042. Guitar Class I/(1).F;S.

Group instruction in the fundamental principles of playing the guitar. A special rental fee of \$13.50 is charged each semester for the use of the guitar. Lecture and demonstration two hours.

1043. Guitar Class II/(1).S.

Group instruction in intermediate level guitar. A special rental fee of \$13.50 is charged each semester for the use of the guitar. Lecture and demonstration two hours. Prerequisite: MUS 1042 or equivalent background.

1044. Diction/(2).S.

The principles and practice of Italian, German and French pronunciation as applied to vocal music in regard to performing and teaching. Lecture three hours.

1410. Introduction to Instrument Repair: Wind Instruments or Strings/(2).F;SS.

The use of proper equipment and the development of those skills necessary for the solution of basic problems in instrument repair. Lecture two hours, laboratory two hours.

1420. Introduction to Music Industry Studies/(1).F.

Lectures and discussions with faculty and representatives from the music industry to familiarize students with the scope of commercial music and the various career fields available. Lecture one hour.

1424. Music Production and Recording/(3).F.

Lecture, demonstrations, and hands-on experience with the operation of a recording studio. Technical procedures, production, and marketing techniques will be included in the course of study. Enrollment is limited to 12 students. Lecture and demonstration two hours, laboratory two hours. Prerequisite: MUS 1420.

1425. Arts Management and Promotion/(3).F.

Lectures, demonstrations, and projects in management and promotion of artists, organizations, and special arts events. Topic areas will include advertising, contractual procedures, utilization of news media, personnel management, and travel-touring arrangements. Lecture and demonstration three hours. Prerequisite for music majors: MUS 1420.

1500. Performance Seminar/(0).F;S.

A series of seminars in solo and ensemble recitals and concerts covering all aspects and problems of public appearances. Required of all music majors. Graded on S/U basis. Laboratory one hour.

2001. Basic Musicianship III/(3).F.

A continuation of Basic Musicianship II, completing the study of chromatic harmony and including the study of Twentieth Century harmonic practice. Aural training, sight-singing, part-writing and analysis are integrated. Aural skills are developed through computer-assisted instruction. Lecture and demonstration 4 hours. Prerequisite: MUS 1002 with a minimum grade of "C-" (1.7).

2002. Basic Musicianship IV/(3).S.

A continuation of Basic Musicianship III. Counterpoint (modal and tonal), contrapuntal forms, instrumentation, and elementary orchestration are studied. Aural skills are developed through computer-assisted instruction. Lecture and demonstration 4 hours. Prerequisite: MUS 2001 with a minimum grade of "C-" (1.7).

2003. Fundamentals of Composition/(2). On Demand.

Provides writing experience in the important musical forms. Prerequisite: MUS 1002. Lecture and demonstration two hours.

2004. Liturgies and Hymnody/(3).F.

A study of the history of worship in the Jewish, Eastern Orthodox, Roman Catholic, and Protestant traditions. Included will be a study of the hymn as it is used in the church's worship. Alternate years. Lecture three hours.

2011. Introduction to Music/(3).F;S;SS.

A nontechnical course for students with little or no musical background. Emphasis is placed on the style and form of music as perceived by the listener. (Humanities) Lecture three hours.

2012. Humanities: Music, Art and Ideas I/(3).F.

A course which concentrates on the interplay of art, music, philosophy and religion in the ancient through medieval cultures and their influences as manifested in other centuries.

2013. Humanities: Music, Art and Ideas II/(3).S.

A course which concentrates on the interplay of art, music, philosophy and religion in contemporary culture.

2014. Jazz Music in American Society/(3).F;S;SS.

Jazz may be the United States' only original contribution to music. due to its comparatively recent emergence as a recognized art form, a great deal of confusion exists as to the meaning, origins, development, and the place of jazz relative to other areas of music. This course will define jazz as precisely as possible and show its evolution in the historical background of the United States. Lecture three hours.

2020. Creative Music for the Classroom Teacher (Humanities)/(3).F;S.

Designed for the student who plans to become a classroom teacher in the elementary school. It involves an integrated approach to developing functional musicianship through listening, reading and writing musical notation, analyzing and creating music. The emphasis is on understanding music and being able to make use of this knowledge in the classrooms. Lecture three hours.

2021. Music Methods for the Classroom Teacher/(3).F;S.

The music elements learned in Music 2020 will be used in studying materials and methods in the elementary classroom. A variety of musical activities will be presented which are suitable for all ages of elementary children. Prerequisite: MUS 2020. Lecture three hours.

2030. Instrumental Playing Techniques (for General Music Education Majors)/(1).S.

Group instruction in the fundamental principles of playing on representative orchestral instruments in each of the following categories: woodwind,

brass, percussion and string. Lecture and demonstration two hours.

2037. Advanced Voice Class I/(1).F.

A continuation of first year voice class with appropriate vocal literature adapted to each student's needs and progress. Lecture and demonstration two hours. Prerequisite: MUS 1038.

2038. Advanced Voice Class II/(I).S.

Continued study of literature and attention to the specific needs of each students. Lecture and demonstration two hours. Prerequisite: MUS 2037.

2040. Advanced Piano Class I/(1).F.

Group instruction in piano technique. Lecture and demonstration two hours. Prerequisite: MUS 1041.

2041. Advanced Piano Class II/(1).S.

Group instruction in piano technique. Lecture and demonstration two hours. Prerequisite: MUS 2040.

2400. History and Construction of Wind and Percussion Instruments/(3).F.

A comprehensive course dealing with the development of these instruments and their effect upon music performance. Emphasis will be placed upon design techniques, materials used, and manufacturing procedures. Lecture three hours.

2401. History and Construction of String and Keyboard Instruments/(3).S.

This course will have the same structure a Music 2400, but will be concerned with string and keyboard instruments. Lecture three hours.

2410. Production Technique in Instrument Repair/(2).F;S.

Adaptation to professional tools and techniques in repair of musical instruments. Prerequisite: MUS 1410. Lecture one hour, laboratory four hours.

2421. Music Production and Recording Seminar/(1).S. (Eff. Spring, 1987)

Lectures, demonstrations and field observation with technical and marketing specialists in the music recording industry. Lecture and demonstration one hour. May be repeated for credit more than one time. Content will vary with each offering as new equipment and techniques develop. Prerequisite: MUS 1420, 1424.

2422. Music Management Seminar/(1).S. (Eff. Spring, 1987)

Lectures, discussions, and field observations with a career person(s) in the field of music and arts management. Emphasis will be upon the management and promotion of individual performers, organizations, and special musical events. Lecture and demonstration one hour. May be repeated for credit more than one time. Content will vary with each offering. Prerequisite: MUS 1420, 1425.

2423. Music and Electronics Seminar/(1).F. (Eff Spring, 1987)

Lectures, demonstrations and hands-on experience with state of the art electronic musical products. Emphasis will be upon delineation of specific sales features of each product and how it will perform in the market place as well as in the hands of the performer. Product specialists from the music industry will assist faculty in presenting these products. May be repeated more than one time for credit. Content will vary with each offering. Lecture and demonstration one hour. Prerequisite: MUS 1420.

2500. Independent Study/(1-4).F;S;SS.

2611. Music History and Literature I/(2).F.

The history of music from the ancient Greeks through the 17th century will be studied. Examples from the music literature of the thirteenth through the seventeenth centuries (Renaissance and early Baroque) will be analysed in detail. Prerequisite: MUS 1002. Lecture and demonstration three hours.

2612. Music History and Literature II/(2).S.

The music of the late Baroque (including Bach and Handel) and of the classic era (including Beethoven) will be studied. Selected examples will be used for detailed analysis. Prerequisite: MUS 1002. Lecture and demonstration three hours.

2900. Internship/(0-2).F;SS.

Subject areas include:

Church Music Field Work I and II/(0-1).On Demand.

The student will be responsible for all or part of a music program in an organized local church. Periodic visits to the church will be made by the professor who will attend rehearsals or services, and evaluate the student's work. Private or group conferences will be held with the professor, who will give guidance to the student. Graded on S/U basis.

Apprenticeship in Instrument Repair/(2).F;S.

Students will participate as apprentices in the routine operation of a manufacturing or repair facility. Prerequisite: MUS 2410. Graded on S/U basis.

3001. Form and Analysis/(2).S.

A detailed study of formal structure in music. Students are required to apply their skills and knowledge to comprehend (aurally and visually) musical structure in compositions of the common practice period. Lecture and demonstration 3 hours. Prerequisite: MUS 2002 with a minimum grade of "C-" (1.7).

3004. Organ Literature and Service Playing/(3).F.

A survey of the main stream of organ literature from the 15th Century to the present. Laboratory experience in playing for services of worship including chant accompaniment, hymn playing, anthem accompaniment and simple improvisation. Lecture three hours.

3007. Counterpoint/(3).S. (Alternate years)

A comprehensive course in the fundamentals of 18th-19th Century counterpoint. Writing and analysis is stressed and required. Prerequisite: MUS 2002.

3020. Conducting/(1).F.

Fundamentals of conducting technique and introduction to score reading. Lecture and demonstration two hours. Prerequisite: MUS 1002 or permission of instructor.

3021. Instrumental Conducting Practicum/(2).S.

Supervised conducting experience with an instrumental ensemble. Score preparation and rehearsal techniques. Lecture and practicum three hours. A minimum of five hours of rehearsal observations. Prerequisites: 1002, 3020.

3022. Choral Conducting Practicum/(2).S.

Supervised conducting experience with a choral ensemble. Score preparation and rehearsal techniques. Lecture and practicum three hours. A minimum of five hours of rehearsal observations. Prerequisites: 1002, 3020.

3031. Instrumental Techniques and Materials/(2).S.

A survey of the materials and methods in instrumental class teaching. Prerequisite: PSY 3302. (Same as SE 3031.)

3032. Choral Techniques and Materials/(2).S.

A survey of the materials and methods in choral teaching. Prerequisite: PSY 3302. (Same as SE 3032.)

3035. Music in the Elementary School/(2).F.

Materials and methods in the field of music teaching in the elementary school. Music in the integrated program; emphasis on the creative phases and the development of musicianship; observation of teaching procedures with children. Designed for music majors. (Same as EE 3035.)

3036. Music in the Middle/Junior High School/(2).S.

A study of the organization and direction of the music program in the Middle/Junior High School. Materials for the changing voice, elementary theory, music appreciation, operettas and program building are surveyed. Designed for music majors. (Same as EE 3036.)

3040. Class Piano/(1).S.

Provides the piano principal with those practical competencies which most directly relate to classroom musical activities such as improvisation, accompanying and related skills. Required of music education majors with a piano principal. Lecture and demonstration two hours.

3420. Music Industry Seminar/(1-1-1).S.

A series of lectures, panel discussions and field observations with persons and firms in the music industry. This course serves as a catalytic experience, bridging academic work and practical application. The course will be a focal point for merchandising majors during their entire program cycle. Must be repeated for a minimum of three hours credit. Lecture and demonstration three hours.

3500. Independent Study in Music/(1-4). F;S;SS.

3510. Honors Independent Study in Music/(1-3).F;S;SS.

Special research or projects which the honors student in music will pursue in lieu of required courses in the music curriculum.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).F;S.

Variable content which may be repeated for credit. Topics will include special areas of music theory, music literature, and music education.

3611. Music History and Literature III/(2).F.

A comprehensive study of the history and literature of music from Beethoven through Post-Romanticism. Prerequisite: MUS 1002. Lecture and demonstration three hours.

3612. Music History and Literature IV/(2).S.

A survey of the history and literature of the early 20th Century to the present. Prerequisite: MUS 1002. Lecture and demonstration three hours.

3660. Computers in Music/(3).On Demand.SS.

An introduction course to basic computer programming and how it can be used in music. Included in the course will be a study of systems designs and the user-written and commercial software available for music. Lecture and lab three hours.

3661. Electronic Music/(3).On Demand.SS.

A study of the principle concepts of sound generation and its reproduction utilizing a synthesizer. Included will be mixing, splicing, and the general use of magnetic tape recorders. Also the concept of digital sound will be explored utilizing a micro computer and a keyboard interface. Lecture and lab three hours.

4004. Organization and Philosophy of Church Music/(2).F.

Organizational principles of a comprehensive church music program, including a study of the philosophy of the art form of music as it relates to theological concepts. Alternate years. Lecture two hours.

4031. Choral Literature I/(2).F.

A survey of representative choral literature from the Renaissance through the Baroque with special emphasis upon materials suitable for secondary and college groups. Lecture two hours.

4032. Choral Literature II/(2).S.

A continuation of Choral Literature I covering the periods from the Classic through the Modern. Lecture two hours.

Senior/Graduate Courses**4510. Honors Project in Music/(2-3).F;S.**

Appropriate research for the senior honors students in music.

4610. Marching Band Techniques/(2).S.

A study of the fundamentals of marching, precision drill, formations and maneuvering; the planning of football shows and parades. Lecture two hours.

4611. American Music/(2).On Demand.SS.

The development of American music from the Puritan psalm singers to contemporary jazz with particular attention given to those musical concepts and practices which are distinctly American. Lecture two hours.

4615. Concert Band Literature/(2).On Demand.SS.

A study of the development of the wind band and its literature. Significant original compositions and transcriptions with emphasis on Twentieth Century works. Lecture two hours.

4618. Symphonic Literature/(2).On Demand.SS.

A comprehensive study of the development of the symphony from the Mannheim School to the present through an analysis of selected works. Lecture two hours.

4630. Problems in Elementary School Music/(2).On Demand.S;SS.

Music teaching in the primary and grammar grades; research and demonstrations of methods of teaching elementary school children. Lecture two hours.

4900. Internship in Music Merchandising/Technology/(8 or 12).F;S.

The internship will be performed off campus in the employ of a cooperating music sales, manufacturing, or repair firm. Interns will receive compensation and will be responsible for certain duties in return. Cooperating firms will work closely with ASU faculty in training and evaluating the intern. Graded on S/U basis.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Performing Groups

1100. Marching Band/(0-1).F.

The marching band works in cooperation with the athletic program during the fall semester. It appears in pep rallies, all home games, parades and at several away games. Membership is open to all students who play hand instruments. The band usually meets for several days prior to the opening of fall semester. All students interested in performing should write to the band director. Majorette

tryouts are held in the spring prior to the fall term. Tuesday and Thursday two hours each day, one dress rehearsal before each game.

1101. Symphonic Band/(0-1).S.

The Symphonic Band is open to all students who have had experience playing band instruments. The groups plays standard literature and presents two concerts each year on campus. Rehearsal three hours.

1102. Wind Ensemble/(0-1).F;S.

Membership in the Wind Ensemble is limited to wind and percussion players who have attained the highest level of performing ability. This usually includes music majors, although non-majors can qualify. The group performs twice each year on campus and occasionally tours to schools in North Carolina and surrounding states. Rehearsal three hours.

1103. Brass Choir/(0-1).F;S.

The Brass Choir is limited in members to 25 and is augmented with a percussion section for various numbers. Rehearsal three hours.

1104. Stage Band/(0-1).F;S.

This group is open to all students by audition. Emphasis is placed on developing a variety of popular music styles. Concerts are given on the campus and occasionally at schools off campus. Rehearsal three hours.

1105. Appalachian Symphony Orchestra/(0-1).F;S.

The orchestra is open to all students who have ability and experience in playing any orchestral instrument. Emphasis is placed on securing good ensemble as well as the technical, dynamic and interpretive demands of the composition performed. The orchestra appears in concert several times during the year. Rehearsals three hours with additional sectional rehearsals.

1106. Chamber Orchestra/(0-1).F;S.

The Chamber Orchestra is open to qualified students who have the ability and experience to perform music literature of the most select and demanding type. Due to the small size of the ensemble, each musician must be prepared to play solo passages. The group appears in concert each semester. Rehearsal three hours.

1107. Small Ensembles/(0-1).F;S.

Small Ensembles are open to all qualified students upon audition. Typical ensembles are the clarinet

choir, string quartet and baroque ensemble. Rehearsal two hours.

1108. University Singers/(0-1).F;S.

The Singers accept students who read music and sing well. Auditions are open to all students. Emphasis is placed on fine choral literature of all periods, with particular emphasis given to the works of outstanding composers. Rehearsal three hours.

1109. Appalachian Chorale/(0-1).F;S.

A large group of 200-300 which is open to all students and members of the community. A major oratorio is presented each semester. Rehearsal two hours on Monday evening.

1110. Treble Choir/(0-1).F;S.

This organization is open by audition to all students capable of and interested in singing literature for soprano and alto voices. Rehearsal three hours.

1111. ASU Glee Club/(0-1).F;S.

This organization is open to all students capable of and interested in singing literature for tenor, baritone and bass voices. Rehearsal three hours.

1112. Chamber Singers/(0-1).F;S.

A select group usually consisting of 16 voices which specializes in the performance of chamber literature of all periods. Selection is based on audition. Rehearsal three hours.

1113. Opera Workshop/(0-1).F;S.

A select group of singers who design, plan and execute an opera each semester. Rehearsal three hours.

1114. Piano Ensemble/(0-1).F;S.

Supervised study and performance of duo and four-hand piano literature. Rehearsal two hours.

1115. Accompanying/(0-1).F;S.

Supervised study of accompanying vocal and instrumental solos. Rehearsal three hours.

1116. Percussion Ensemble/(1).F;S.

The function of this ensemble is to introduce the student to the wide area of percussion ensemble literature and to give the student small ensemble experience in the principal area of performance. Rehearsal three hours.

The Reich College of Education

Benjamin F. Strickland, Dean

J. Pat Knight, Assistant Dean

Mae Reck, Assistant Dean

The Reich College of Education has primary responsibility for the preparation of elementary, middle grades and secondary teachers, as well as teachers in special subject areas, library media coordinators, reading teachers, reading specialists, special educators, speech pathologists, supervisors, audiovisual specialists, counselors, teachers of higher education, administrators for the public schools and institutions of higher education, and related human development specialists for community agencies. One goal of the college is to provide an efficient delivery system of preservice and inservice preparation to individuals pursuing a career in any of the above listed areas. Additionally, the college houses a national resource center for developmental educators and the Bachelor of Technology program.

National Center for Developmental Education

Milton G. Spann, Director

The National Center for Developmental Education, originally founded through a grant from the W.K. Kellogg Foundation, offers a variety of resources and services to college and university personnel throughout the United States who are concerned with the educational needs and problems of academically underprepared college students.

The Center resources include a specialized library and a computerized people-to-people linking service composed of persons from across the nation knowledgeable in the ways of teaching, counseling and motivating underachievers. The Center offers conferences, workstops and seminars for practitioners in the field; conducts occasional research, and works closely with the Department of Leadership and Higher Education in the implementation of the University's graduate programs in Developmental Education. The Center also sponsors the nationally recognized Kellogg Institute for the Training and Certification of Developmental Educators, which provides advanced training to selected practitioners from across the United States. In addition, the Center publishes the leading periodical in the field, the *Journal of Developmental Education*, as well as a bi-monthly newsletter, *Research in Developmental Education*. The Center also provides consultation and technical assistance to colleges and universities seeking to improve their program and services to students with academic deficiencies.

Bachelor of Technology

Leland Cooper, Coordinator

The Bachelor of Business Technology or Industrial Technology Degrees, which are housed in the Department of Leadership and Higher Education, are offered to graduates of technical institutes, community colleges or technical colleges who hold the Associate in Applied Science degree in business or industrial technology.

All students making application for the BT degree must meet the following requirements:

1. Show evidence that they have mastered the basic technical skills in their areas by satisfactorily completing the requirements for an Associate in Applied Science degree or its equivalent in a business or industrial technology program.
2. Have a minimum GPA of 2.5 in their AAS work and recommendation from the degree-granting institution, or a minimum of 2.2 with an outstanding recommendation from the AAS school.
3. Submit an official transcript from the two-year school.
4. Submit a letter of endorsement from the president, dean or other comparable official, from the AAS institution.
5. Submit a Student Application-Data Sheet, including a nonrefundable \$15 processing fee.
6. Submit a medical form after admission to the BT degree is granted.

In no case will transfer credit be given for more than 62 semester hours. Applicants accepted into this program are eligible only for the BT Degree. Applications should be directed to: Admissions Officer, Appalachian State University.

To earn a BT degree, the following requirements must be met:

1. Completion of at least 60 semester hours at Appalachian after admission to the Bachelor of Technology degree. Student must maintain at least a 2.00 grade point average throughout the program.
2. Completion of the following general education requirements:
 - Humanities*
 - One course in literature (at 2000 or 3000 level) 3 s.h.
 - Two courses from Art 2011, English 2170,
Music 2011, Communication Arts 2011 6 s.h.
 - One course in philosophy or religion 3 s.h.
 - Social Science*
 - History 1101 and 1102 or proficiency at the level of these courses demonstrated by examination. If proficiency is demonstrated by examination, appropriate credit will be given without grade. 6 s.h.
 - If a student has completed a year of European or World History in high school with an average of "B" or better, the requirement in history may be met by electing History 2301, 2302; or 2401, 2402; or American History 2201, 2204.

Psychology 2201 or Psychology 3301 3 s.h.

One course in Sociology, Anthropology, Political Science
or Criminal Justice 1 s.h.

(If the equivalent of one semester hour of an appropriate social science has been completed prior to entrance in the BT Program, this requirement is considered completed.)

TOTAL 22 s.h.

3. Completion of professional education requirements as follows:

Leadership and Higher Education 3060,
4950 and 4970 9 s.h.

Leadership and Higher Education 4900
(internship) 8 s.h.

Educational Foundations 3800 3 s.h.

Curriculum and Instruction 4750 2 s.h.

Human Development and Psychological Counseling 4840 3 s.h.

Psychology 3302 3 s.h.

TOTAL 28 s.h.

4. Biological and Physical Sciences 6-8 s.h.

Biology 1101-1102;

Chemistry 1101-1102; 1101-1110;

Geology 1101-1102; 1101-1103;

Physical Science 1001-1002;

Physics 1001-1002; 1103-1104; 1101, 1105;

1101, 1106, 1150-1151

If six semester hours of a natural science have been completed prior to entrance into the BT degree, this requirement is considered completed.

TOTAL 6-8 s.h.

5. Completion of an area of concentration consisting of a minimum of 12 semester hours. The courses in the area of concentration are chosen with the approval of the student's advisor from departments whose offerings are related to the student's field of study. The student in business technology will choose courses in accounting, office administration, business education, economics, finance or marketing or management, taking up to, but not more than, 14 semester hours in the College of Business during the BT degree. Business Technology students must complete six semester hours of principles of economics and six semester hours of principles of accounting if prior credit has not been earned. If taken on the ASU campus during the BT degree these hours count toward the required hours for graduation and fulfill the business concentration. The student in industrial technology will choose from the courses in industrial arts. The student must have at least a 2.00 grade-point average on all work in the 12 hour concentration and the 28 hours of professional education requirements.

6. Demonstration of proficiency in reading, speech, and written English. Proficiency tests must be taken the first semester in which the student is enrolled.

7. Completion of residence requirements.

8. Compliance with regulations concerning settlement of all expense accounts.
9. Recommendation of the faculty.

The BT degree is not designed to prepare students for secondary school vocational certification. Those who wish to pursue secondary vocational certification should consult their advisor.

Meeting graduation requirements is the responsibility of the student.

Departments

The College of Education consists of the following departments:

Curriculum and Instruction
Human Development and
Psychological Counseling
Language, Reading, and
Exceptionalities

Leadership and Higher Education
Library Science and
Educational Foundations

Degrees

The College of Education offers the Bachelor of Science degree leading to teacher certification in the fields of Child Development (K-4); Elementary Education (K-6); Middle Grades Education (6-9); and K-12 certification in Art Education; Health Education, Secondary Education; Physical Education; Reading; and Special Education-Mild/Moderate Handicapping Conditions. A Bachelor of Science degree in Habilitative Science and Speech Pathology, both of which are nonteaching and noncertification programs, are offered by the Department of Language, Reading and Exceptionalities. The Bachelor of Music degree with K-12 teacher certification is available in Music Education. The Bachelor of Science degree with teacher certification (9-12) may be earned in: Business Education; Marketing Education for Teachers; Driver and Traffic Safety Education; English, Secondary Education; French, Secondary Education; History, Secondary Education; Home Economics with a concentration in Secondary Education; Industrial Education with a concentration in Secondary Education; Mathematics, Secondary Education; Spanish, Secondary Education; Speech Teaching with a concentration in Speech Communication (K-12) or Theatre Arts (K-12); Science Education (with a concentration in Biology, Chemistry, Earth Science, or Physics); and Social Science, Education (with a concentration in Anthropology, Economics, Geography, History, Political Science or Sociology).

For graduate degree offerings see the graduate section of this bulletin and the *Graduate Bulletin*.

The College of Education offers programs leading to the Bachelor of Business Technology degree which are administered by the College of Education. These programs are for graduates of technical institutes, community colleges or technical colleges

who desire careers in business, industry or teaching in technical institutes, community colleges or technical colleges.

Bachelor of Science Degree

(with teacher certification)

To earn the Bachelor of Science degree with teacher certification, the following requirements must be met:

1. Completion of at least 122 semester hours with a grade-point average of at least 2.00. A transfer student must have at least a 2.00 grade point average on all work at Appalachian.
2. Completion of the general education requirements.
3. Demonstration of proficiency in reading, speech, and written English.
4. Completion of a major consisting of 24 to 56 semester hours from one of the fields listed below:

Art, Education (K-12)
 Business Education
 Child Development (K-4)
 Driver and Traffic Safety Educ.
 Elementary Education,
 Early Childhood Educ. (K-6)
 English, Secondary Education
 French, Secondary Education
 Health Education, Secondary
 Education (K-12)
 History, Secondary Education
 Home Economics with a
 concentration in Secondary Educ.
 Industrial Education, Secondary
 Education
 Marketing Education for Teachers
 Mathematics, Secondary Education

Middle Grades Education (6-9)
 Music Education (K-12)
 Physical Education, (K-12)
 Reading (K-12)
 Special Education-Mild/Moderate
 Handicapping Conditions (K-12)
 Science Educ. with concentration
 in Biology, Chemistry, Earth
 Science, or Physics
 Social Science Educ. with
 concentration in Anthropology,
 Economics, Geography, History,
 Political Science, or Sociology
 Spanish, Secondary Education
 Speech Teaching with concentra-
 tion in Speech Communica-
 tion (K-12) or Theatre
 Arts (K-12)

A student must have at least a 2.50 grade-point average to be admitted to the College of Education and must maintain a 2.00 grade-point on all work in the major. Transfer students must complete at least eight semester hours of work in the major at Appalachian and have at least a 2.00 grade-point on all work at Appalachian in the major. With the exception of the science and social science majors, specific requirements for each major preface the list of courses offered by the department. Requirements for the interdepartmental majors of science and social science may be found by referring to those sections of the index.

5. Completion of professional education requirements as follows:
 Elementary Education/Middle Grades Education (see program
 requirements in the Curriculum and Instruction Department)

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Special Education: (see program requirements in Language,
Reading and Exceptionalities Department)

Secondary Education (9-12): CI 2800, FDN 3100 (or equivalent),
FDN 3800, CI 4750 (or equivalent)

Special Subject Majors (K-12): FDN 3800, CI 2800, CI 4750
(or equivalent), CI 3100 (or equivalent)

PSY 3301, 3302.....6 semester hours

Reading Methods Course.....2-3 semester hours

Methods course or courses.....See Departmental Requirements

CI 4900.....12 semester hours

Students must earn 12 semester hours credit for student teaching.

A grade of 2.00 or higher must be made in each professional education course.

These courses may not be taken under the pass-fail grading system.

6. Electives to complete 122 semester hours.
7. Completion of residence requirements.
8. Compliance with regulations concerning settlement of all expense accounts.
9. Recommendation of the faculty.
10. State certification requires the successful completion of competencies in the teaching of reading. The department advisor should be consulted as to how the student's program meets the requirements.
11. Take the Core Battery I, II and III examinations and the Specialty Area Examination, if available in the student's field, of the National Teacher Examinations. (The North Carolina State Board of Education has designated the National Teacher Examinations as the standard examinations required for initial certification.) A table of minimum cut-off scores is available in the Office of Field Experiences (EDH 220) and in the office of each academic advisor.

Procedure for Applying to the College of Education and for Undergraduate Teacher Education

1. When students have completed 28 semester hours, including ENG 1000 and 1100, and have obtained at least a 2.00 G.P.A., they will be notified that they may officially declare their major. After the major is declared, the student's academic and advisement records will be forwarded to the degree granting college and to the advisor within the College of Education. The college will then forward these records to the appropriate academic department.

2. The chairperson of the academic department will be responsible for processing the application for admission into the department.
3. Students enrolled in child development (K-4), secondary education (9-12), art education, health education, physical education, and music education (K-12) will be notified of their academic department acceptance (or rejection) and asked to complete an application form for entry into the College of Education. The application must be completed and returned to the Advisement Coordinator in the College of Education.
4. Students enrolled in elementary education (K-6), or middle grades education (6-9); reading, special education, or speech pathology and audiology, will be notified when their records are sent to the College of Education and when to report to the College for advisement procedures. (Child development majors see #3 above.)
5. Transfer students will follow the procedures above.

Admission to the College of Education for Undergraduate Teacher Education

To be admitted to the College of Education for teacher education a student must have:

1. Completed at least 60 semester hours.
2. A *cumulative grade-point average of at least 2.50* (a grade-point average of at least 2.0 must be maintained thereafter). Transfer students must have the ASU Admissions Office *certify* that they have maintained at least a grade-point average of 2.50 at the school from which they transferred. Such certification will be submitted to the Dean of the College of Education prior to enrollment in teacher education at ASU.
3. Demonstrated proficiency in reading, speech, and written English.
4. Been accepted by a department as a major in that department.
5. A recommendation from the chairperson of the department in which the student is majoring and for secondary education majors, acceptance by the chairperson of the Department of Curriculum and Instruction.
6. All freshmen, sophomores, and incoming transfers enrolling in the teacher training program as of the Fall semester of 1983 and for all following semesters will:
 - I. At the **end of their sophomore year** and before they may be formally enrolled with the College of Education, take and satisfy testing requirements for Core Battery I (Communication Skills) and Core Battery II (General Knowledge) of the National Teacher's Exam (NTE).
 - II. Be aware that College of Education policies operate to limit the progression of potential candidates in teacher education to introductory courses until all formal admission requirements (including Core Batteries I and II) have been satisfied.

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III. Be aware that **native students** must have taken both Core Batteries I and II, achieved a 2.50 GPA and established proficiencies in Reading, English, and Speech. Provisional admittance to the College will be allowed pending the receipt of successful scores in Core Batteries I and II.

The student will be allowed to enroll in professional education requirements; PSY 3301 (except those seeking certification in levels 6-9), PSY 3302, FDN 3800 and CI 2800. The student will **not** be allowed to proceed in the College beyond the above mentioned courses until **all** entrance requirements have been successfully completed.

IV. **Transfer and irregular certification students** must present evidence of application for Core Batteries I and II or have taken Core Batteries I and II, indicate successful admission to the University, and show evidence of achieving proficiencies in English, Speech, and Reading.

The student will be allowed to enroll in:
PSY 3301 (except those seeking certification in levels 6-9), PSY 3302, FDN 3800, CI 2800, and elective courses (those College of Ed. courses not required in the undergraduate teacher education program.)

Speech Pathology students will also be allowed to enroll in LRE 2259, LRE 3360, LRE 2261, and LRE 2563. (These are typically sophomore level courses.)

Those students who have already completed the above courses will be allowed to enroll in other professional education courses only if they obtain the approval of the appropriate department chairperson within the College of Education.

Students will not be allowed to proceed in the College beyond the above mentioned course restrictions until **all** entrance requirements have been successfully completed.

Advisement

Advisement for **ALL** teacher education students is available through the Office of the Coordinator for Advisement (EDH 220) and in each instructional department. Advisement is **MANDATORY** for **ALL** freshmen and sophomores through the Office of the Coordinator for Advisement. All freshmen will be advised in the office of General College and all sophomores in the Office of the Coordinator (EDH 220). Students will **not** be allowed to preregister until they have consulted with the advisement coordinator in the College of Education. Complete advisement information upon acceptance into the College of Education and for certification is available from the Office of the Director of Field Experiences (EDH 220). Students are urged to check with the Office of the Coordinator of Advisement immediately upon their decision to become a teacher.

Proficiency Requirements

All students who are candidates for baccalaureate level teacher certification must pass proficiencies in reading, speech, and written English. These proficiencies should be completed during the freshman and/or sophomore years. Transfer students in teacher education also must pass these proficiencies during their first semester at ASU. Only students who have completed their proficiencies will be admitted to the teacher education program. Specific information on meeting requirements is presented below:

Native Students (defined as students who begin careers at ASU)

- Speech Proficiency - Completion of CMA 1100, two semester hours with a 2.00 or better.
- English Proficiency - Completion of ENG 1000, three semester hours, Freshman English course with a 2.00 or better.
- Reading Proficiency - Taking the Nelson-Denny Test upon entering ASU and scoring 85 or better. If the score is less, a student must enroll in LRE 1000, one semester hour. Upon successful completion of this course with a 2.00 or better, the student will be declared proficient.

Transfer Students

- Speech Proficiency - If a student has had a comparable speech course (CMA 1100) at the former school, the student must make an appointment with the Speech and Hearing Center to be tested in communication. If the student has **not** had a speech course, she/he must enroll in CMA 1100. Upon successful completion of this course with a 2.00 or better, the student will be declared proficient.
- English Proficiency - Students transferring Freshman English must take the test administered by the Testing Center. If an unsatisfactory grade is recorded, the student must enroll in ENG 2000. Upon successful completion of this course, the student will be declared proficient.
- Reading Proficiency - The student must take the Reading Test administered by the Testing Center. If the student scores 85 or better, the student is declared proficient. If the score is below 85, the student must take LRE 1000. Upon successful completion of this course with a 2.00 or better, the student will be declared proficient.

Student Teaching

During the sixth, seventh or eighth semester students who are taking undergraduate programs of study leading to teacher certification will student teach for one semester in

the area, at the level for which they have been preparing, and in a local educational agency. This work will consist of full-time teaching under the guidance of a competent and experienced teacher. Student teaching provides the student professional laboratory experience in the same activities in which the regular teacher engages. There is no provision to fulfill the student teaching requirement during the Summer Session.

Students will be notified in advance concerning the semester and location in which they will student teach. Student teaching assignments in off-campus schools will conform to the local schools schedule with reference to holidays, workdays, etc.

Special field experience programs may be available during the sophomore, junior and senior years. Information may be obtained from the appropriate department chairperson or the Director of Field Experiences in the College of Education.

Internship

Students planning to take internships/practica should contact individual departments in the College of Education to inquire about requirements and procedures for entering these experiences.

Conditions Prerequisite to Student Teaching

The following requirements must be met prior to student teaching:

1. All proficiencies and professional education courses including methods courses must have been completed satisfactorily with a grade of 2.00 or better.
2. A student who has completed all prerequisites for student teaching will be unconditionally placed. Others may be tentatively placed until all prerequisites have been satisfied. However, no student will be permitted to student teach unless all prerequisites have been satisfied.
3. Child Development majors (K-4) must have the approval of the chairperson of the Department of Home Economics and the Chairperson of the Department of Curriculum and Instruction. Prior to student teaching, child development majors must take and satisfactorily complete CI 2800, LRE 3120, CI 4030, 4590, PSY 3301, 3302, LRE 3900, GS 4401, FDN 3100, 3800, and CI 4750.
4. Elementary education (K-6). A student must have the approval of the chairperson of the Department of Curriculum and Instruction. Prior to student teaching, elementary majors must have satisfactorily completed CI 2800, 3110, LRE 3120; LRE 3900, CI 4000, 4030, PSY 3301, PSY 3302; GS 4401; FDN 3100, 3800, and CI 4750. Middle grade education majors must have CI 2800, 3140; LRE 4620; PSY 3301, PSY 3302; FDN 3800, 3100; CI 4750 and required method(s) course(s).
5. Secondary majors (9-12). Students must have the approval of the chairperson of the Department of Curriculum and Instruction and the chairperson of their academic department. Prior to student teaching, secondary majors will have completed proficiencies in reading, speech, and written English; FDN 3800 and CI 2800, CI 4750 (or equivalent); FDN 3100 (or equivalent); PSY 3301 and 3302,

and the required methods courses. LRE 4630 may be taken after student teaching. English majors are required to take LRE 4620 in lieu of LRE 4630 prior to student teaching.

6. Students may qualify under either the elementary or secondary requirements, if they are majors in a special subject (art, health education, music, physical education, reading education and special education) leading to K-12 teacher certification. Special subject (K-12) students must take the following prerequisites prior to student teaching: CI 2800, 4750 (or equivalent), FDN 3100 (or equivalent), 3800, PSY 3301 and 3302. Also, special subject students must refer to departmental requirements concerning prerequisites for student teaching.
7. Each applicant must agree to student teach full time for one semester.
8. Students seeking multiple certifications must make particular arrangements with the Director of Field Experiences.

Steps in Application for Student Teaching

- I. Students must have been released from General College and must have been admitted to both the College of Education and the Teacher Education Program before they will be allowed to student teach. (See the appropriate section of this catalog for specifics.)
- II. Those students planning to student teach in either the Fall or Spring semesters of the 1987-89 academic year must attend the Student Teaching Orientation Meeting on one year prior to their actual placement. Contact the Office of Field Experiences for date, time, and location of the meeting.

A. Students attending the *Orientation Meeting* will receive:

1. Copies of *Application for Student Teaching forms*.
2. A copy of the *Teacher Education - Information Sheet*.
This sheet lists the requirements for admittance to the Teacher Education Program, requirements in the Teacher Education Program and prerequisite courses for student teaching.
3. A Placement Information card.
This card supplies the Office of Field Experiences with tentative information concerning preferred semester and geographic areas of placement.

Note:

The application forms and the placement information card must be completed by the student and returned to the Office of Field Experiences (EDH 220).

- B. Additional information presented at the orientation meeting will include:
1. Identification of possible geographic placement areas;
 2. Identification of student teacher supervisors within each placement area; and
 3. General procedures/rules concerning placement, course prerequisites, and advising procedures.

Students having questions concerning particular student teaching situations should contact the Director of Field Experiences in Edwin Duncan Hall, Room 220.

Teacher Certification

All Appalachian State University teacher education programs have received appropriate approval by the State Board of Education and lead to North Carolina teacher certification.

Persons who are college graduates with nonteaching degrees or who wish to certify in a second teaching area and who desire to receive teacher certification from Appalachian State University will indicate this in writing to the office of the Dean of the College of Education prior to arrival on campus. At the same time, they will indicate the area and level in which they desire certification and will send complete transcripts of all previous college study. No certification commitments will be made by the University until transcripts have been received and reviewed by the chairperson of the involved academic department (where applicable) and the appropriate records advisor of the Dean of the College of Education. A person seeking such certification may expect to meet the same certification requirements and demonstrate proficiencies required of regular Appalachian State University students seeking similar certification.

The certification process begins and ends in the office of the Dean of the College of Education. Planning conferences with all persons involved in determining the program of study will be necessary. Certification commitments will be finalized only upon completion of these conferences.

Interdepartmental Concentrations Leading to Teacher Certification in Science Education

A curriculum leading to the Bachelor of Science degree and teacher certification in Science Education consists of professional education requirements as described in that section of the catalog and one of the following options:

A certification in biology consists of 26 semester hours above the 1100 level (including BIO 2201-2202, 2204-2205, 3300, 3308, 3520, 4554, 4555 or 3301), plus CHE 1101-1102, and 1 semester of organic chemistry, PHY 1103-1104, and MAT 1025-1110 or 1110-1120 or 1040—(STT) 3810.

A concentration in chemistry consists of 23 semester hours above the freshman level (including CHE 2201, 2210, 3301, 3303, 3404, 3520, and seven hours selected from other chemistry courses), plus PHY 1103-1104 or 1150-1151, six to eight hours in biology, and MAT 1110 and 1120.

A concentration in earth science consists of 27 semester hours in Geology (GLY 1101, 1102 and 1103, 1200, 2450, 3300 and 4850), plus GHY 3100, 3110, CHE 1101-1102 or PHY 1103-1104, MAT 1020 or 1025 and 3910 or 3920, BIO 1101-1102, PHY 1001-1002, and 3 hours of geology electives. Geology 3520, 3 semester hours total, will be required for one semester of Instructional Assistance in each of the following: Geology 1101, Geology 1102, and Geology 1103. (CI 2800 may be substituted for one hour of GLY 3520).

A concentration in physics consists of a minimum of 32 hours in physics (including PHY 1103-1104 or 1150-1151, 2010-2020, 2210, 3520, 4210, and 9 to 11 hours of physics electives—PHY 1001, 3210, and 2630 or 3630 being recommended), plus BIO 1101-1102, CHE 1101-1102, and MAT 1110, 1120, 2130, and 3130. IET 2004 is also recommended.

Teacher Education Certification in Social Science Education (Undergraduate)

The Bachelor of Science degree and teacher certification consists of 60 semester hours in social science including general education requirements in social science. These requirements must include a core (51 semester hours) consisting of ANT 1210 and 2215; ECO 2030 and 2040; GHY 1010, 1020, and 4200; HIS 1101, 1102, 2201, 2204, 2599, and 3728; PS 1100, 2130, and 3240; SOC 1115 and 2000; and a concentration of nine additional semester hours in one of the above areas. In addition the social science education major must complete STT 3810 (student concentrating in economics may complete either STT 3810 or ECO 2100 but cannot count both towards the major). It is suggested that the student take P&R 1020. A student majoring in social science education should select MAT 1020 to satisfy the mathematics requirement in general education.

A concentration in anthropology for the Social Science Education degree must include nine semester hours in anthropology chosen in consultation with the departmental advisor.

A concentration in economics for the Social Science Education degree must include ECO 3010, 3020, and three additional semester hours in economics numbered 3000 or above. MAT 1030 is recommended.

A concentration in geography for the Social Science Education degree must include GHY 2310, 3013, 3200, and 3210.

A concentration in history for the Social Science Education degree must include nine semester hours in history chosen in consultation with the departmental advisor.

A concentration in political science for the Social Science Education degree must include one three semester hour course from each of the three following groups: (A) 3110, 3210, 4310, 4270; (B) 3130, 3150, 3230, 4230; (C) 2115, 3280, 3630, 4175.

A concentration in sociology for the Social Science Education degree must include nine semester hours in sociology chosen in consultation with the departmental advisor.

Graduate Degrees

The College of Education offers the Master of Arts degree in Agency Counseling; Community Education; Curriculum Specialist (Education Supervision Certification); Education Administration, Community Education; Education Administration, School Administration; Educational Media; Early Childhood Education (K-4); Higher Education, Administration; Higher Education, Adult Education; Higher Education, Developmental Studies; Higher Education, Teaching; Middle Grades Education (4-6/6-9); Reading Education, General; Counseling and Guidance (School Counseling K-12); Special Education/Emotional Disturbance; Special Education/Gifted and Talented; Special Education/Learning Disabilities; Special Education/Mental Retardation; Special Education/Teaching Parent Speciality; Special Education/Severe-Profound (Emotional Disturbance/Mental Retardation); Speech Pathology; Student Development. The Specialist Degree is offered in Counselor Education; Curriculum and Instruction; Educational Administration; Educational Media (for Librarians); Elementary Education, General; Higher Education, Administration; Higher Education, Adult Education; Higher Education, Developmental Studies; Higher Education, Teaching; Reading Education, General; Special Education, General. The MA and CAS in School Psychology (Level II) is offered jointly through the Departments of Human Development and Psychological Counseling and Psychology. Persons interested in any of these degrees are requested to consult the *Graduate Bulletin* for further information.

Department of Curriculum and Instruction (CI)

C. Kenneth McEwin, Chairperson

The Department of Curriculum and Instruction offers undergraduate degrees in Elementary Education, Early Childhood Education (K-6), and Middle Grades Education (6-9). Courses are also offered which lead to undergraduate certification at the secondary school level (grades 9-12). The Departments of Curriculum and Instruction, Home Economics, and Psychology offer a cooperative undergraduate degree program in Child Development which leads to early childhood certification, grades K-4, when the Elementary Education concentration (K-4) is selected.

Master of Arts degrees are available in the areas of Early Childhood Education, Educational Media, Curriculum Specialist (Educational Supervision), Middle Grades Education (6-9), and Special Education/Gifted and Talented. Educational Specialist degree programs are offered in Curriculum and Instruction and Elementary Education, General. Courses which lead to graduate certification in Secondary Education are also

available. See the *Graduate Bulletin* for additional information. In addition, the department maintains several series of courses in instruction, research, and field services for the continuous improvement of curriculum materials, school organization, and methods of teaching.

Undergraduate majors must pass reading, English, and speech proficiencies before admittance to the Department of Curriculum and Instruction. Child Development, Elementary Education, and Middle Grades Education majors must also successfully complete CI 2800 Introduction to Teaching before admission.

Child Development (Grades K-4 Certification)

The Departments of Curriculum and Instruction, Home Economics, and Psychology cooperate to offer the B.S. Degree in Child Development conferred by the Department of Home Economics upon the completion of the required 20 semester hours multidisciplinary core curriculum (CI 3130 and 4590; HEC 2201, 3101, and 4100; and PSY 3660 and 4560) and courses in **one** of the three areas of concentration: Psychology, Elementary Education, or Home Economics.

Child Development majors electing the Elementary Education option must complete the following courses: CMA 1100†, PHS 1001, 1002; (or PHS 1101 and 1105 or 1106, or CHE 1101 and 1102); ART 2011†; MUS 2020*; BIO 1107* or GS 4401*; HED 3100*; HEC 2201†; CI 2800□, 2020†, 2023†; HIS 2201* or 2204*; FDN 3100□, 3800□, LRE 3120†, CI 3130†, 4030†, 4590□, 4750†, 4900, HEC 3101†, 4100*; PSY 3301†, 3302†, 3660†, 4560†, LRE 3900†; SOC 4800; LRE 3040*. Child Development majors are required to take the Core Battery III and the Early Childhood Education Area of the National Teacher Examination. NOTE: Students should check with the Office of Field Experiences prior to making application for Core Battery III.

(†Must be completed with a grade of "C" (2.00) or better. *May not be taken on pass-fail option.)

Elementary Education, Early Childhood Education (Grades K-6 Certification)

Students preparing to teach in kindergarten through grade six must complete the following courses: CI 2800†; CMA 1100*; PHS 1001, 1002 (or PHS 1101, 1105 or 1106, or CHE 1101, 1102); HED 1105*; BIO 1107*; GHY 1020*; HIS 2201* or 2204*, HIS 2207*; ART 2011*; MAT 1910*; MUS 2020†; PS 1100*; FDN 3100†; 3800†, CI 2020†, 3110†, 4750†, 4900; MUS 2021†; PE 3556†; HED 3655†; PSY 3301†, 3302†; LIB 3040*; and 12 semester hours of academic electives from the following areas, with not more than 6 semester hours from any one area: art, music, English, Spanish, French, mathematics, science, and social sciences. The following courses are to be taken concurrently in the junior year: LRE 3120†, CI 3110†, 4000†, 4030†; LRE 3900†; GS 4401†. Majors preparing for grades K-6 are required to take the Core Battery III and the Early Childhood Education Area of the National Teacher

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Examination. NOTE: Students should check with the Office of Field Experiences prior to making application for Core Battery III.

(*May not be taken on pass-fail option. †Must be completed with a grade of "C" [2.00] or better.)

Middle Grades Education (Grades 6-9 Certification)

Students preparing to teach in the middle grades (six through nine) must complete the following courses: FDN 3100†, 3800†, CI 2800†, 3140†, 4120, 4640†, 4750, 4900; PSY 3301†3302†; LRE 4620†; and academic concentrations from any two of the following areas with the two appropriate methods courses (CI 3110†, LRE 3120†, CI 4030†, GS 4402†); language arts, mathematics, science, social studies. A minimum of 15 semester hours is required in each of the two selected concentrations. Middle Grades majors are required to take the Core Battery III and the Education in the Elementary School Area of the National Teacher Examination. NOTE: Students should check with the Office of Laboratory Experiences **prior** to making application for Core Battery III.

(†Must be completed with a grade of "C" (2.00) or better.)

Secondary Education (Grades 9-12 Certification)

The REQUIREMENTS FOR CERTIFICATION in Secondary Education are as follows:

CI 2800	Introduction to Teaching	4
FDN 3100	Classroom Use of Microcomputers in Grades K-12 (or equivalent)	2
FDN 3800	Foundations of American Education	3
CI 4750	Audiovisual Instruction (or equivalent)	2
PSY 3301	Developmental Psychology	3
PSY 3302	Educational Psychology	3
	Methods Course/s in area of teaching specialty	2-3
LRE 4630	Reading in the Content Areas	2
	(English majors take LRE 4620 (3) in lieu of LRE 4630)	
CI 4900	Student Teaching	12

All professional course requirements (with the exception of LRE 4630; CI 4620) must be completed prior to the Student Teaching experience. Students must also pass proficiency tests in reading, speech, and written English prior to student teaching.

A student preparing to teach a special area (Grades K-12) (art, health and physical education, library science, or music) must complete FDN 3100 (or equivalent), 3800; CI 2800, 4750 (or equivalent), PSY 3301, 3302; methods course or courses in the field of concentration; and CI 4900. Any course in the professional sequence transferred from another institution must be cleared by the department.

Media Studies Minor

In addition to the programs listed above, a minor in Media Studies is available. This fifteen semester hour minor consists of the following courses:

Required Courses:

CI 4820	Instructional Technology	3
CI 4830	Critical Viewing Skills	3

Other Courses: (nine hours must be selected with the advisement and approval of an advisor from the Department of Curriculum and Instruction).

CI 4740	Photography	3
CI 4760	Cinematography	3
CI 4770	Intermediate Photography	3
CI 4840	Production of Educational Videotapes	3
CI 4940	Film: Image and Influence	3
CI 4950	Documentary Film	3

Courses of Instruction in Curriculum and Instruction

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

0200. Handwriting/(0).F;S.

A lab for cursive and manuscript writing. Offered on S/U basis.

2020. Art in the Elementary School/(3).F;S;SS.

Experiences developing understanding of perceptual growth of the child, aesthetic content in art, concepts from elements in art forms, teaching methodology, and the teaching of an art unit in a laboratory situation. No prerequisite. Two hours per week lecture. Laboratory will include art experiences designed to increase the students' understanding of the artist's use of elements in art forms, media selected for adaptability into the elementary classroom, both two and three dimensional work. Two hours per week laboratory.

2023. Movement, Drama, and Play/(3).S.

The planned integration of movement, dance, drama, and constructive play in curricula for children 0-8 years, including those with exceptional needs.

2800. Introduction to Teaching/(4).F;S.

Basic conceptual introduction to the world of public education and the teaching of regular and

special needs students. Students are required to perform a minimum of 45 hours of participation and/or observation in the public schools.

3020. Curriculum Design in Elementary School/(3).F;S.

A study of elementary school curriculum as it relates to current social forces, human development, human learning and the nature of knowledge. Exemplary models for alternative designs will be explored.

3031. Instrumental Techniques and Materials/(2).S.

A survey of the materials and methods in instrumental class teaching. Prerequisite: PSY 3302. (Same as MUS 3031).

3032. Choral Techniques and Materials/(2).S.

A survey of the materials and methods in choral teaching. Prerequisite: PSY 3302. (Same as MUS 3032).

3035. Music in the Elementary School/(2).S.

Materials and methods in the field of music teaching in the elementary school. Music in the integrated program; emphasis on the creative phases and the development of musicianship; observation of teaching procedures with children. Designed for music majors. (Same as MUS 3035).

3036. Music in the Middle/Junior High School/(2).S.

A study of the organization and direction of the music program in the Middle/Junior High School. Materials for the changing voice, elementary theory, music appreciation, operettas and program building are surveyed. Designed for music majors. (Same as MUS 3036.)

3080. Teaching High School Mathematics/(2).F;S.

Students will have 30 hours of teamed experience in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3090. Teaching High School Science/(2).F;S.

Students will have 30 hours of teamed experience in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3100. Teaching High School Social Science/(2).F;S.

Students will have 30 hours of teamed experience in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3110. Social Studies in the Elementary School/(3).F;S;SS.

The place of social studies in the elementary curriculum; objectives, instructional procedures, materials, and evaluation criteria.

3111. Teaching High School English/(2).F;S.

Students will have 30 hours of teamed experience in public school classrooms in addition to class. Prerequisite: English 3200 & 3300. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3120. Teaching Foreign Languages/(2).S.

Students will have 30 hours of teamed experiences in public school of classrooms in addition to class.

It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3130. Methods of Teaching for Cognitive Development/(3).F.

Major cognitive development theories applied to curriculum planning for children with diverse needs. Design, organization, construction, and evaluation of learning environments and activities for promoting cognitive growth. Should be taken concurrently with PSY 4560.

3131. Teaching Home Economics/(3).F;S.

Students will have 30 hours of teamed experience in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3140. Interdisciplinary Internship/(4).S.

Acquaints teachers of early adolescents with the techniques of teaching as an individual and as a member of an interdisciplinary team. Planning and implementing learning programs which integrate subjects taught in the middle grades is emphasized. Lecture 35 hours; laboratory 150 hours. Prerequisite: CI 2800.

3141. Teaching Physical Education/(2).F;S.

Students will have 30 hours of teamed experiences in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3160. Methods of Teaching Industrial Education/(3).F;S.

An introduction to methods, instructional strategies, organization and administration for teaching classroom and laboratory activities in Industrial Education subjects. Experiences will include development of unit and lesson plans, demonstrations, presentations, discussion techniques and field observation. Lecture three hours.

3170. Teaching Business Education/(2).S.

Students will have 30 hours of teamed experiences in public school classrooms in addition to class. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3180. Teaching Speech Communication and Theatre Arts/(2).S.

Prerequisites: FDN 3800 and PSY 3302. It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3190. Classroom Methods and Materials in Driver and Traffic Safety Education/(2).F;S.

It is strongly advised that all other requirements for certification (except student teaching) be completed prior to the methods course.

3500. Independent Study/(1-3).F;S;SS.**3520. Instructional Assistance/(1).F;S;SS.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.**4000. Elementary School Curriculum and Instruction/(4).F;S.**

The basic principles of curriculum and instruction as applied to five to twelve year old children are examined. Attention is given to traditional as well as innovative programs. Selecting, planning, and utilizing materials, methods, activities, and facilities suited to elementary children are emphasized. Learning programs are planned for specific classroom situations, and are implemented and evaluated during the course. Lecture 45 hours; laboratory minimum of 90 hours. Prerequisite: CI 2800.

4030. Mathematics in the Elementary School/(2).F;S;SS.

A study of how children develop basic number concepts and learn to perform operations with natural numbers and fractions. Consideration of sequential learning experiences appropriate to each grade level.

4100. Educational Assessment and Curriculum Development for the Exceptional Infant and Young Child/(3). On Demand.

Evaluation, methods and materials used with the very young and preschool child with mild to moderate conditions.

4120. Nature of the Middle/Junior High School Learner/(3).F;SS.

A study of the nature of the early adolescent learner and the implications for teachers that can be drawn from that knowledge. Emphasis is placed on the guidance and counseling function of the teacher.

4421. Art Education: Age 13 Through Adulthood/(3).F. (Eff. Fall, 1987)

Recommended to be taken concurrently with ART 4422. Art teaching-learning for teenagers through adults for public schools and on-traditional groups, stressing personal development, concepts, environmental influences, and interdisciplinary relationships. Practicum experiences in middle school, high school, and relevant alternate sites. Prerequisites: ART 3421 and 3422. Prerequisites may be waived for non-certification students with permission of the instructor.

*Senior/Graduate Courses***4590. Early Childhood Curriculum and Instruction/(4).F;S.**

The basic principles of curriculum and instruction as applied to early childhood. Development and organization of the curriculum with emphasis on integrating the multiple aspects. Selecting, planning, and utilizing materials, methods, activities and facilities suited to the young child. Course includes 60 hours of practical experience in an early childhood classroom and 45 hours of lecture. Prerequisites: CI 2800 and 3130 or permission of instructor. (Child Development majors only).

4592. Nature and Nurture of the Gifted and Talented/(3).F;S;SS.

An introductory course related to the characteristics, nature, nurture and identification of the gifted/talented child in the educational environment.

4593. Curriculum for Gifted/Talented/(3).F;SS.

A study of trends and design of the curriculum in modern elementary and secondary schools, unit construction, communication skills, and historical perspective. An intensive study course dealing with the interpretation, design, development and implementation of methods and materials which are used with gifted/talented children with emphasis on curriculum development and teaching techniques.

4621. Club/Co-Curricular Activities/(3).SS.

A study of clubs/co-curricular activities as they function in high schools today. Emphasis is placed on the faculty members role as sponsor and director of clubs. This course is also structured for trade and industry education and is a requirement for certification for teachers in occupational education.

4640. Middle School Curriculum and Instruction (Grades 6-9)/(3).F;SS.

Development and organization of the curriculum with emphasis placed on communicative skills, the humanities, the social studies, and exploratory career education; selection and use of materials, methods, activities and facilities for programs suited to the early adolescent.

4740. Photography/(3).F;S;SS.

Basic theory, principles and techniques of black and white and color photography. Laboratory fee.

4750. Audiovisual Instruction/(2-3).F;S;SS.

Primary focus is on media in relation to learning. Direct experiences with transparencies, slides, recordings, tapes, photography, television, and video are provided.

4760. Cinematography/(3).F;S.

Introduction to the knowledge and technical skills needed to create films that communicate effectively. Application of these skills to the production of Super 8 sound films. Exposure to each of the three stages in the filmmaking process: preproduction, production, and post-production. Laboratory fee.

4770. Intermediate Photography/(3).F.

An intermediate photography course which strengthens skills previously acquired in black and white photography and introduces color photography. Prerequisite is a basic photography course or permission of the instructor. Fee.

4800. Advanced Projects in Educational Media/(1-3).F;S.

Design, production, and evaluation of individual student projects involving media. Consent of instructor.

4820. Instructional Technology/(3).F;S.

The course is intended to introduce students to the field of instructional technology including its theoretical and practical components. Students are introduced to traditional and emerging electronic communication systems and equipment, and consider the application such technology may have whether in education, business or industry.

Particular attention is given to the instructional design process with emphasis placed on the relationship between the inception of a program or technology and the actual instructional application and implementation of it.

4830. Critical Viewing Skills/(3).F;SS.

This course develops the ability to critically analyze and interpret media messages, particularly those conveyed through the visual channel. While particular attention is given to film and television, including educational and mass media programming and production, the course recognizes that both film and television developed out of photography and attention is therefore given to reading still images as well as moving images. This involves studying elements such as illustrations in children's books, photo-journalism and advertising.

4840. Production of Educational Videotapes/(3).F;S.

Introduction to the knowledge and technical skills needed to create effective, low-budget single camera video programs. Exposure to the different equipment and program formats commonly used in schools, training programs, and media centers. Experience in each of the three stages in the production process: pre-production, production, and post-production.

4900. Internship/Student Teaching/(6 or 12).F;S.

Teaching experiences under supervision for one semester for students who plan to teach in grades K-12. Graded on S/U basis.

4940. Film: Image and Influence/(3).S.

The course examines the relationship between cinema and society. The American film industry is studied as a medium of mass communication with a potentially powerful influence. Film is examined from a sociological context and as historical evidence. Consideration is given to the ways in which films can be used for instructional purposes.

4950. Documentary Film/(3).F.

Students view and analyze a variety of documentary films in terms of both form and content. Emphasis is placed on understanding the wide range of purposes for which documentaries are made, and on examining the variety of techniques used to achieve those purposes. Students examine how and why every documentary is, to a varying degree, a creative treatment of actuality.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Department of Human Development and Psychological Counseling (HPC)

Fred T. Badders, Chairperson

The Department of Human Development and Psychological Counseling is responsible for organizing and providing instruction in counseling and related areas and other human development functions for public schools, colleges/universities, and various agencies. The department offers the following masters degrees in the area of human development and psychological counseling:

1. Agency Counseling is designed to prepare counselors and other "helping" professionals to work in a wide variety of human service agencies (including mental health centers, social service agencies, employment and rehabilitation centers, business and industry employee assistance programs, etc.). Various specialized course emphases are available.
2. Counseling and Guidance (School Counseling K-12) is designed to meet state certification requirements and to prepare counselors for elementary, middle, and secondary schools. (Prerequisite: a North Carolina "A" teaching certificate, its equivalent, or a supervised public school internship.)
3. Student Development is designed to prepare counselors and other student development (student personnel/student affairs) specialists who wish to work in a post-secondary educational setting (universities, four-year colleges, community colleges, and technical institutes/colleges).

A School Psychologist Program, Level II option, a 60-66 semester hour joint program with the Psychology department, leads to a Master of Arts in School Psychology (including a Certificate of Advanced Study) and is designed to meet state certification requirements for Level II school psychologists.

The Educational Specialist degree (Ed.S.) in Counselor Education is a degree program for persons holding a master's degree or its equivalent in school counseling or student development. Programs are individualized to take into consideration the number and type of courses in the applicant's master's degree program with a total of 66 semester hours of approved courses required in the combination of master's degree program plus Ed.S. program. A minimum of 18 semester hours of approved courses are required in the Ed.S. program at Appalachian State University. Concentrations are available in School Counseling (K-12 school counselor certification) and Student Development (post-secondary institutions).

The programs in Agency Counseling (M.A.); Counseling and Guidance [School Counseling K-12] (M.A. and concentration under the Counselor Education Ed.S.); and Student Development (M.A. & concentration under the Counselor Education

Ed.S.) are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). Graduates are eligible to take the examination of the National Board for Certified Counselors, Inc. with successful completion qualifying the individual to become a National Certified Counselor. The Certified School Counselor degrees are also accredited/approved by the National Council for Accreditation of Teacher Education (NCATE) and the North Carolina Department of Public Instruction.

The department also provides group methods, human relations, and other human development courses at the graduate and undergraduate levels for the College of Education and the university. A course in life and career planning (HPC 2200) and courses in leadership development are offered for university undergraduate students.

A student proposing to major in any of the counselor education areas or to seek certification through the department must be admitted to the Graduate School and/or be advised by the advisors in the Department of Human Development and Psychological Counseling prior to taking any course. See the *Graduate Bulletin* for a listing of course requirements in each program.

Courses of Instruction in Human Development and Psychological Counseling

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

2200. Life/Career Planning/(2).F;S.

This individually oriented study helps students consider those career choices and related factors contributing to satisfaction and happiness in life. The process of goal setting and self-management by objectives will be studied in order for the student to plan systematically for a career. Offered on a S/U basis only.

2700. Introduction to Leadership Development/(3).F.

Designed to introduce students to the development of leadership skills. Topics/emphases include an assessment of each student's preferred leadership style as well as an introduction to team building, decision-making, time management, program planning, group communication, and goal setting. Students will become actively involved in one or more roles in at least one campus organization.

3390. An Introduction to and Procedures in the Helping Professions/(3).F;S.

Historical, philosophical, and legal aspects of the helping professions. Emphasis placed on understanding the various approaches to counseling. Contributions of paramedical and other areas are discussed. (Same as PSY 3390.)

3400. Resident Assistant Development/(3).F;S.

Designed to enhance the personal and professional growth of Resident Assistants. Emphasis is given to the residential living/learning environment and related student development theory; leadership development and styles; communication skills/styles; and situational topics relative to the Resident Assistant position. Open only to approved prospective or current ASU Resident Assistants.

3500. Independent Study/(1-4).F;S.**3520. Instructional Assistance/(1).On Demand.**

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.**3700. Applied Leadership Development in Student Organizations/(3).F;S.**

Designed to study the component parts of organizational leadership while assisting leaders in various student clubs and organizations to develop further their leadership skills. The course format will combine instruction, discussion, and experiential learning in order to bridge the appropriate theories with the reality of organizational leadership. The course is limited to students in existing club/organization leadership roles.

4300. Advanced Student Leadership Development/(3).F.

Designed for designated student body officers/leaders to develop and practice their leadership capabilities. It combines the theoretical understanding through the classroom setting with the practical concepts through a practicum. Emphases include an understanding of the University community, clear organizational goals, advanced leadership concepts, and related topics/issues. The course is limited to those invited and approved by the instructor.

*Senior/Graduate Courses***4570. The Addictive Process/(3).F;SS.**

An examination of sociological and psychological contributors to alcohol and drug addiction and abuse in our society. The addictive process and its impact on the individual and society are described, as well as treatment and preventive program efforts. Students will also examine their own feelings and attitudes about alcohol and drug use and abuse.

4680. Counseling the Aging/(3).F.

This course is designed to aid individual undergraduate and graduate students interested in gerontology to understand and appreciate aging as a lifelong process; pay attention to three phases of adulthood with concomitant

"developmental tasks" and problems, and to understand counseling strategies applicable to each phase of life being studied.

4790. Group Methods and Processes/(3).F;S;SS.

A study of group dynamics, experimentation in groups, leadership roles, and applicability to other settings.

4800. Basic Dream Interpretation/(3).F;S.

A review of C.G. Jung's life and the development of Analytical Psychology. This review includes the beginning and expansion of his analytical approach to dream analysis. Special attention will be given to the structure of dreams, dream images and how dreams relate to the life of the dreamer. Students will begin to explore their dreams via the analytical method.

4840. Human Relations and Interaction/(3).F;S;SS.

Examines the key elements in effective interpersonal communication. Students will be exposed to one or more human relations models that are designed to improve their communication skills, such as Carkhuff/Gazda scales, Parent Effectiveness Training, Teacher Effectiveness Training, Transactional Analysis, values clarification, psychodramatic techniques, etc. Emphasis will be given to applying constructive methods of human relations in a variety of settings including business, schools, and social service agencies.

4850. Advanced Dream Interpretation/(3).S.

An advanced structural study of individual and collective dreams based on the works of C.G. Jung. Special attention will be given to the concepts of ego, persona, shadow, animus/anima, self components, psychological types, complexes, symbols, archetypes, fairy tales, and alchemy. Prerequisite: HPC 4800 or permission of instructor.

4870. Guidance Services in the Elementary School/(2). On demand.

Designed primarily for those who are preparing to become counselors at the elementary school. Emphasis is given to philosophy, organization, maintenance and use of records, variety and use of tests, play therapy concepts, consultation with teachers and/or parents.

4900. Internship in Public Schools/(1-9).On Demand.

Designed for school counselor graduate students who do not possess an "A" teaching certificate

and who must have an extended internship in a public school setting prior to obtaining a "G" certificate. Each internship is arranged and coordinated on an individual basis consistent with state policies. This course will be limited to students accepted into the school counselor program and the

course credit will not count toward the graduate degree. Graded on the S/U basis only.

For graduate courses (5000 or above) refer to the Graduate Bulletin.

Department of Language, Reading, and Exceptionalities (LRE)

Mike Marlowe, Chairperson

The Department of Language, Reading, and Exceptionalities includes professionals in Reading, Special Education, and Speech Pathology & Audiology. This enables the department to provide innovative programs focusing, in a transdisciplinary fashion, on all facets of language, reading and specific areas of exceptionality. All students pursuing programs in the Department of Language, Reading, and Exceptionalities must satisfy the College of Education's requirements pertaining to admission, advisement, proficiencies, and certification.

Undergraduate programs offered include:

Speech Pathology

Reading (B.S.)

Special Education/Mild-Moderate Handicapping Conditions (BS)

Habilitative Science (B.S.)

For information on any of the Department's graduate programs, consult the current *Graduate Bulletin* or contact the department chairperson.

Speech Pathology

The Department of Language, Reading, and Exceptionalities offers a B.S. degree in Speech Pathology for students interested in persons with communication disorders (speech, language, hearing). The pre-professional undergraduate program is designed primarily to prepare students for entry to the professional graduate program. Each student accepted into the degree will arrange a plan of study with a departmental academic advisor.

Initial certification in the North Carolina schools requires a G (graduate) level certificate.

The typical sequence of courses for a degree in Speech Pathology is:

	Fall Semester	Spring Semester
Second Year:	LRE 2259	LRE 3360
	LRE 2264	LRE 2261
		LRE 2563
Third Year:	LRE 2260	LRE 2263
	LRE 3364	LRE 3367
Fourth Year:	LRE 3365	LRE 4365
	LRE 3368	LRE 4366
	LRE 4564	LRE 4564
		LRE 4565

Students interested in state or national certification (American Speech Language and Hearing Association Certificate of Clinical Competence) should see the *Graduate Bulletin*, or contact the departmental chair.

Reading Education

The Department of Language, Reading, and Exceptionalities offers an undergraduate degree leading to "A" certification (K-12) in Reading Education when attached to initial certification in elementary, middle, and/or secondary education. Prospective students should make an appointment with the reading coordinator to plan an approved program of study for certification.

An undergraduate student majoring in Elementary Education, Early Childhood Education (K-6) who wishes to add Reading Education to an "A" certificate must complete the following courses: FDN 4560, LRE 4591, 4710, 4620, 4720, and 4650 or FDN 4200.

For teachers with a Bachelor's degree and North Carolina "A" certification in Elementary or Secondary Education, the department offers a program of study leading to Reading certification (K-12) including: LRE 4591, 5111 or LRE 5710, 4710, 4620, 4720, and 4650 or FDN 5570.

Special Education

The Department of Language, Reading, and Exceptionalities offers the Bachelor of Science degree in Special Education/Mild-Moderate Handicaps. Completion of this degree leads to initial certification in mental retardation, learning disabilities, and emotional disturbance. The program concentrates on mild/moderate handicapping conditions with an emphasis on resource room instruction for mentally retarded, learning disabled, and emotionally disturbed children.

The undergraduate major in Special Education includes the following courses: CI 2800, FDN 3100, 3800, LRE 3370, CI 3374, 4750, LRE 3900, CI 4101, 4102, LRE 4562, CPD 4550, 4551, LRE 4571, 4576, 4600, 4601, 4901, 4902 and CI 4900.

Habilitative Science

A major in Habilitative Science consists of an individualized program of study that meets the student's particular career objectives in the area of Special Education. Any student, in consultation with an advisor and with the permission of the chairperson, may elect to adopt the major with a minimum of 36 semester hours plus the departmental core. Certification is not offered with this major.

Special Education, General Minor

A student may earn an undergraduate minor, which generally consists of a minimum of 15 semester hours of credit from courses offered by the Special Education Degree. Each minor is individually designed by the student and the special education advisor for minors. A minor will be contracted for prior to the senior year of the last two semesters of residence at Appalachian. Approval must be granted by the student's "home" college prior to contracting for a minor in special education.

Courses of Instruction in Language, Reading, and Exceptionalities

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

1000. College Reading and Study Skills/(1).F;S;SS.

Designed to afford immediate improvement of reading skills and study habits to enable students to carry out the academic requirements of college. A grade of C or higher in this course fulfills the reading proficiency requirement for teaching majors.

2000. Advanced College Reading and Study Skills/(1).F;S;SS.

Enriches the student's reading and study techniques, including flexibility and improvement of reading rate, and the establishment of lifelong reading habits.

2259. Communication Disorders/(3).F;S.

An introduction to the disorders of human communication in children and adults. (Meets ASHA B-2).

2260. Communication Development/(3).S.

Verbal and non-verbal development of the child. (Meets ASHA B-1).

2261. Phonetics/(3).S.

The phonetic/phonemic systems of English concentrating on I.P.A. transcription skills. (Meets ASHA B-1).

2263. The Clinical Process/(3).S.

The ethics, standards and methods that are re-

quired within a clinical setting. (Meets ASHA B-8). Prerequisite 2259.

2264. Anatomy and Physiology of the Speech and Hearing Mechanisms/(3).F.

The anatomical and physiological processes involved in verbal and auditory communication. (Meets ASHA B-1).

2500. Independent Study/(1-4).F;S.

2563 Clinical Observation/(1).F;S;SS.

Direct observation of the various procedures involved in a clinical program in speech-language pathology and audiology. (Meets ASHA B-8). Prerequisite: 2259, 2261.

3040. Children's Literature/(4).F;S;SS.

Survey of literature of the field; criteria for selection and use with children, methods for presenting literature to children.

3070. Media for Young People/(3).S;SS.

Survey of literature, films and television for adolescents; criteria for selection and use; methods of encouraging critical use of media by young people.

3120. Language Arts in the Elementary School/(3).F;S;SS.

A study of communication skills; listening, speaking, reading, composition, handwriting, spelling; a comparison of current teaching methods and materials; emphasis on the language arts as the core of the elementary school curriculum.

3360. Basic Speech Science/(3).S.

The study of speech production and perception. Concentrations on basic production processes of cerebration, respiration, phonation, articulation and resonance. Studies on speech perception related to auditory perception of frequency, intensity, and duration. (Meets ASHA B-1.) Prerequisite: 2264.

3364. Audiology/(3).F.

The science of hearing and the etiologies of hearing impairment. (Meets ASHA B-3). Prerequisite: 2259, 2264.

3365. Disorders of Articulation/(2).F.

Etiology, evaluation, and management of disorders of articulation in children and adults. (Meets ASHA B-2). Prerequisite: 2259, 2261, 2264.

3367 Aural Rehabilitation/(3).S.

Therapeutic and educational methods and the use of amplification with the hearing impaired. (Meets ASHA B-3). Prerequisite: 3364.

3368. Disorders of Voice/(2).F.

The etiology, evaluation and management of disorders of voice in children and adults. (Meets ASHA B-2). Prerequisite 2259, 2264.

3370. Introduction to Mental Retardation/(3).F;S;SS.

A study of individuals who have problems of retardation with regard to characteristics, behavior, and general nature and needs in the home, community, and learning environment.

3374. Diagnostic Prescriptive Teaching/(3).F;S.

Deals with specific teaching techniques or academic subjects for the exceptional child. Academic areas to be covered include arithmetic, reading, art, music, physical activities, and recreation, social studies, general health and grooming and therapeutic arts and crafts.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.

3900. Principles of Reading Instruction for the Classroom Teacher/(3).F;S;SS.

This course is a major professional course which prepares teachers to teach reading in grades K-12. Knowledge objectives of the course focus on the developmental nature of language and reading ability, along with some major issues and instructional materials and practices associated with reading instruction. Performance objectives are designed to develop skills in (1) diagnosing individual differences, (2) setting goals and objectives for reading instruction, (3) evaluating reading behavior, (4) developing instructional strategies, and (5) utilizing resources for reading instruction. (This course may be used to meet certification requirements for teachers in grades K-6, teachers

being certified in Special Education, Library and Media Studies, and Speech Pathology and Audiology.)

4101. Educational Assessment and Curriculum Development for the Primary and Intermediate Exceptional Child/(3).F;S;SS.

Evaluation, methods and materials used with the primary and intermediate (K-8) school-aged child with mild to moderate handicapping condition. This course must be taken in sequence with LRE 4102, 4551, 4601, and 4900.

4102. Educational Assessment and Curriculum Development for Secondary and Adult Exceptional Person/(3).F;S;SS.

Evaluation, methods and materials used with the high school and adult aged exceptional person with mild to moderate handicaps. This course must be taken in sequence with LRE 4101, 4551, 4601, and 4900.

4365. Disorders of Fluency/(2).S.

The etiology, evaluation, and management of disorders of fluency (including stuttering) in children and adults. (Meets ASHA B-2). Prerequisite: 2259.

4366. Disorders of Language/(2).S.

The etiology, evaluation and management of language disorders in children and adults. (Meets ASHA B-2). Prerequisites 2259, 2260.

Senior/Graduate Courses

4550. The Exceptional Child in the Home, School and Community/(2).F;S;SS.

A study of the psychological and sociological considerations of exceptionality as they are expressed in the home, school and community.

4551. Program Development in Adapted Physical Education/(3).F;SS. On Demand. (Eff. Fall, 1985.

This course is concerned with the development of appropriate physical education programs for handicapped children and adults. The course will include curriculum development. Inservice training, IEP Development, legislative concerns, and evaluative techniques.

4552. Methods and Curriculum in Adapted Physical Education/(3).S;SS. On Demand. (Eff. Spring, 1986)

This course is designed to address state-of-the-art techniques and method used in the implementation of appropriate physical education programs for handicapped children and adults. Students will

be required to apply classroom knowledge to a practicum setting with children and adults.

4553. Cooperative Planning with Exceptional Students, Parents and Professionals/(2).F;S;SS.

A study of processes and procedures used in planning educational programs for exceptional students. The encouragement of parent and professional involvement in special education is stressed. This course must be taken concurrently with LRE 4101, 4102, and 4601 by Special Education majors.

4562. Language and Speech Disorders of Exceptional Children/(3).F;S;SS.

Studies of the habilitation of language and speech disorders of the preschool and school age child. Specific competencies developed in the behavioral evaluation and habilitation of language and speech disorders frequently associated with exceptional children, i.e., the mentally retarded, learning disabled, and emotionally disturbed. This course must be taken consurantly with 3374, 4600, 4901 by Special Education majors.

4564. Clinical Practicum/(1-3).F;S;SS.

Supervised clinical practicums in evaluation and therapy techniques in speech pathology and audiology. For each semester hour of credit, forty-five clock hours of practicum experiences are required. May be repeated for a total of 6 s.h.. Prerequisite: Approval of department chairperson. Graded on S/U basis only. Required of all students. (Meets ASHA B-8).

4565. Public School Methods in Speech Pathology and Audiology/(3).S.

Methods for providing speech, language, and hearing services to public school childre. (Meets ASHA B-8). Prerequisites 2259, 2260, and 2263.

4571. Introduction to Emotional Disturbance/(3).F;S;SS.

An introductory course in the education of the emotionally handicapped child. Emphasis will be placed upon the psychological, sociological, and educational implications in the education of emotionally handicapped children.

4576. Introduction to Learning Disabilities/(3).F;S;SS.

The identification and education of youth with learning disabilities, including programs, teaching strategies, and theories.

4591. Advanced Study in the Teaching of Reading/(3).F;SS.

The intent of this course is to help reading education majors expand their knowledge of the parameters of reading instruction and the total school reading program. Emphasis is placed on increased knowledge of the reading process, instructional methods and techniques, scope and sequence of reading skills, instructional materials, instruments for measuring reading ability, and sources of information on reading.

4592. Medical Aspects of Disability/(3).F.

Medical aspects of major physical disabilities with implications for rehabilitation. Opportunities will be provided for first-hand observation and experience in an institutional setting. (Same as PSY 3392.)

4600. Behavior Management/(2).F;S;SS.

A study of the background, procedures, and application of behavior management in a learning situation for the exceptional child. It moves from theory and the laboratory into the classroom, home and community. Various approaches will be discussed. Must be taken concurrently with 3374, 4901, 4562 by Special Education majors.

4601. Classroom Management and Intervention Strategies/(2).F;S.

A study of practical, on-the-job techniques of classroom management, at the application level. Various methodologies and intervention strategies will be introduced. Must be taken concurrently with 4101, 4102, 4902 and 4551.

4602. Communication Problems of the Aged/(3).F.

The dynamics of normal communicative processes in the geriatric population and the psychological changes that occur as human beings age.

4620. Reading Instruction in the Middle/Junior and Senior High School/(3).F;S;SS.

In addition to covering the content and skills presented in LRE 4630, this course covers the following: (1) the developmental reading program, (2) organizing and administering the high school reading program, (3) reading interests and tastes, (4) providing reading instruction for special groups, (5) meeting needs of the individual reader.

4630. Reading in the Content Areas/(2).F;S;SS.

This course prepares content area teachers to utilize reading as an instructional process in their

classrooms. In addition reading is used to gain perspective on broader learning processes. Course topics include: (1) Classroom assessment procedures, including textbook evaluation and selection, and classroom diagnostic techniques. (2) Accommodating individual differences. (3) General lesson and unit planning strategies. (4) Focused instructional strategies, which include specific teaching activities for reading and learning. (This course may be used to meet certification requirements for special subject teachers in grades 7-12 who teach subjects such as: English, Social Studies, Math, Science, Biology, Health and Physical Education, Sociology, Geography, Drivers Education, Business, Music, Art, Foreign Language, and so on.)

4640. Workshop in Teaching Reading/(2).SS.**4650. Linguistics and Reading/(3).F;SS.**

Relates these areas of linguistics to the process of reading: phonetics, syntax, semantics, rhetoric and dialect.

4700. Introduction to the Teaching-Family Model/(3). On Demand.

An introduction to the philosophy and implementation of the Teaching-Family Model treatment approach. Emphasis will be placed on meeting the needs and remediating problems of the emotionally disturbed and delinquent youth.

4710. Informal Classroom Diagnosis and Corrective Reading Communication/(3).F;S;SS.

Prepares students to administer and interpret commonly used informal reading tests and other instruments in order to plan effective classroom instruction for remedial, developmental and gifted pupils. Prerequisites: LRE 3900, 4591, 4620, or 4670.

4720. Diagnostic and Remedial Reading I/(3).F;S;SS.

The course deals with commonly used reading tests and how to locate causes of reading difficulties and to prescribe corrective procedures for the severely disabled reader. Prerequisites: LRE 3900, 4710, 4620 or 4591.

4730. Diagnostic and Remedial Reading II/(3).F;S;SS.

Students are assigned to individual or small groups for diagnostic and remedial teaching. Prerequisite: LRE 4720.

4890. Reading and Communications/(2).On Demand.

Centers on reading as it relates to mass media and communications.

4900. Practicum in Special Education/(1-9).F;S;SS.

Supervised practicum experience in educational settings; basically for habilitative science majors. Prerequisite: approval of chairperson.

4901. Practicum in Educational Assessment and Curriculum Development for the Exceptional Child/(3).F;S.

Field experiences designed to give practice in evaluation, methods and materials in all age groups. This course is taken concurrently with LRE 3374, 4600 and 4562. Graded on S/U basis only.

4902. Practicum in Mild and Moderate Handicapping Conditions/(1-4).F;S.

Field practice in school settings of techniques used in the education of the mildly and moderately handicapped individual. Graded on S/U basis only. This course must be taken concurrently with LRE 4101, 4102, 4601, and 4553.

4903. Internship/(3-12).F;S;SS.

Supervised therapy with emphasis on individualized therapy techniques. (Meets ASHA B-8). Prerequisite: Approval of department chairperson. Graded on S/U basis.

4904. Field Experience/(3).F.

Students register only by permission of advisor in reading.

For graduate courses (5000 or above) refer to the Graduate Bulletin.

Department of Leadership and Higher Education (LHE)

Braxton Harris, Chairperson

The Department of Leadership and Higher Education is responsible for organizing and providing graduate instruction in public school administration, higher education administration and teaching, developmental education, community and adult education. The undergraduate Bachelor of Business Technology or Industrial Technology degrees are also administered by the department.

The department offers courses of instruction leading to a Master of Arts degree in the following areas:

1. Educational Administration, Community Education or Educational Administration, School Administration—prepares persons for a school principalship at elementary or secondary level. Such degrees lead to administration certification in North Carolina. Students majoring in Community Education are prepared for public school administration. (Prerequisite for administration certification: Class "A" Teaching Certificate and three years of successful teaching experience.) Students seeking only certification in Educational Administration should contact the Chairperson of the Department of Leadership and Higher Education for a list of the required prerequisites and courses.
2. Higher Education, Administration; Higher Education, Adult Education; Higher Education, Developmental Studies; or Higher Education, Teaching—(designed to prepare students to teach in community, junior

and technical colleges); prepares students who wish to work in post-secondary educational settings.

3. Community Education—an interdisciplinary Master of Arts degree based upon competencies identified by educational and recreational leaders and which are needed to work in the field of community education. The degree is served by an inter-departmental faculty committee which assists students in developing study based upon the student's current levels of competence in all required areas.

The Educational Specialist degree (Ed.S.) in the Department of Leadership and Higher Education is a 30 semester hour degree program offered in the following areas:

1. Educational Administration—provides advanced graduate work for public school administration. This degree leads to sixth year certification.
2. Higher Education Administration—provides advanced graduate work in the area of post-secondary education (administration, teaching, developmental studies, and adult education).

Students pursuing or holding graduate degrees in other departments, and also seeking administration certification, must take the necessary courses and internship prescribed by the Department of Leadership and Higher Education.

A student working toward a degree and/or certification in the Department of Leadership and Higher Education must develop his/her program of study in consultation with an approved advisor. Candidacy forms must be submitted to the Graduate Office before the student has completed twelve hours of course work. Degree students taking courses without being officially assigned an advisor and receiving the advisor's approval, do so at the risk of not having the courses approved as part of the degree program.

Students who want to minor in the Department of Leadership and Higher Education should contact the Chairperson of the Department.

A minor consists of 9-12 semester hours of designated courses from the program track concentration selected (Community Education; Higher Education, Developmental studies; Higher Education, Adult Education; Higher Education, Administration; Higher Education, Teaching).

Courses of Instruction in Leadership and Higher Education

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to a minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

3060. Community and Technical Colleges/(3).F;SS.

A study of the philosophy, goals, and purposes of community and technical colleges. Special emphasis is given to study of the historical development, student characteristics, role of faculty and administration, and instructional and curriculum development in occupational technical and human service programs.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on a satisfactory/unsatisfactory basis only. Prerequisite: junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3).On Demand.

Senior/Graduate Courses

4900. Internship in Community and Technical Colleges/(2-8).F;S.

A teaching and/or administrative internship in a community college, technical college, or technical institute under the direct supervision of experienced instructors and administrators. Students teach courses in vocational, technical, or human service programs and/or perform administrative, research, and training functions in area of adult and continuing education. Grade is on an S/U basis only.

4950. Teaching in Technical and Occupational Career Programs/(3).F;S.

A study of effective strategies and methods of teaching vocational, technical and human service subjects. Attention is given to systematic instruction including classroom planning, preparing instructional objectives, using alternative teaching methods, and student evaluation. Special effort is placed on students developing learning modules and practicing teaching methods. Should be taken prior to the internship.

4970. Seminar on Community and Technical Colleges/(3).F;S.

Study and analysis of teaching, administrative, planning and leadership problems and issues related to community colleges, technical colleges, and technical institutes. Research of recent trends of two year colleges are studied. This course is also designed to complement the internship by assisting the students with course planning and development.

4980. Introduction to Adult and Community Education/(3).F.

The principal goal of this course is to give students an appreciation of the evolution of the concepts, philosophies, and programs of adult and community education. The course is intended to serve as an introduction of the numerous populations, agencies, and delivery systems involved in the process of providing lifelong learning experiences.

For graduate courses (5000 or above) refer to the Graduate Bulletin.

Department of Library Science and Educational Foundations (LIB/FDN)

Tom Jamison, Chairperson

The Department of Library Science and Educational Foundations serves the education community and the public in two ways. It provides foundational courses which have relevance to the professional studies component in teacher education. The courses in Foundations of Education (FDN) provide students of education and the institution of the school with the opportunity to learn about the social and cultural factors that impact on education and schooling. The department also provides courses that develop the

skills and knowledge needed to understand how research in the field of education is designed, implemented, and evaluated. The Foundations of Education faculty is available to assist fellow professionals and the public in meeting those needs which involve educational research activity, assessment procedures, and in understanding the various cultural factors that seem to impinge on the school and its mission in society.

The Department of Library Science and Educational Foundations offers the Master's Degree in Library Science, General and the Ed.S. in Educational Media (for Librarians) Studies. Persons interested in either of these degree programs are requested to consult the *Graduate Bulletin* for further information.

For courses of instruction in Library Science (LIB) refer to the *Graduate Bulletin*.

Courses of Instruction in Foundations of Education (FDN)

It should be noted that the indication of a course being offered in summer school (SS) is tentative and subject to minimum enrollment. Students are advised to check with the appropriate chairperson regarding a specific course being offered.

(For a description of the course abbreviations used in the following list of courses, see page 36.)

3100. Classroom Use of Microcomputers in Grades K-12/(2).F;S;SS.

An introduction to the applications of microcomputer technology in instructional settings. Topics included are popular computer systems used in schools; word processing; data storage and retrieval; software evaluation, selection and use; and computer languages designed for classroom instruction.

3500. Independent Study/(1-4).F;S;SS.

3520. Instructional Assistance/(1).F;S;SS.

A supervised experience in the instructional process on the university level through direct participation in a classroom situation. Grading will be on an S/U basis only. Prerequisite junior or senior standing. May be repeated for a total credit of three semester hours.

3530-3549. Selected Topics/(1-3). On Demand.

3800. Foundations of American Education/(3).F;S;SS.

An examination of historical, philosophical, sociological, political and economic forces affecting education and schooling in the United States. May serve as an elective for non-teacher education majors.

4200. Psychology of Reading for the Classroom Teacher/(3).F.

Provides classroom teachers with a comprehensive overview of modern learning theories as they apply to the psychology of reading behavior and the psychology of reading instruction. The course is organized in such a way that students are guided into critical evaluation and analysis of reading practices in relation to prevalent theories of learning. Students are encouraged to formulate ways in which learning theories can be translated into reading behavior and used to develop teaching strategies for teaching instruction.

Senior/Graduate Courses

4560. Measurement and Assessment/(2).

F;S;SS.

Basic course for elementary, secondary, and junior college teachers which stresses the construction and use of teacher-made tests.

4600. Educational Statistics/(2).F.

A study of the basic statistical procedures in education including measures of reliability, variability, correlation, central tendency, and problems of sampling.

**4800. Education of the Culturally Diverse/
(3).F;SS.**

A general survey of situations encountered by the teacher in a culturally diverse society. As emphasis on the development of the empathetic teacher and the creation of teacher strategies and materials. Open to graduates and seniors.

**4810. Education in Appalachian America/
(3).S;SS.**

A course designed to assist the teacher of mountain children in understanding the pupil and

school in the Appalachian culture. Various Appalachian cultural descriptors and their effect on schooling will be discussed with attention to the creation of teaching strategies and materials. Open to graduates and seniors.

For graduate courses (5000 and above) refer to the Graduate Bulletin.

Office of Summer Sessions

Summer sessions at Appalachian have experienced steady growth, not only in size, but also in depth of programs offered. Besides offering courses allowing undergraduates to work toward their degree requirements, the university schedules workshops, seminars, and standard courses for teachers and other professional persons to gain enrichment or to work toward advanced degrees.

Terms of varying lengths are offered to allow students to fit their summer studies into other summer plans. Summer sessions at Appalachian offer an alternative to the typical summer school.

Division of Continuing Education

Richard B. Parrott, Director

In cooperation with each of the colleges of the university, the Division of Continuing Education strives to provide educational experiences for those outside the confines of the University through field-based courses, conferences, and camp programs.

Although the Division of Continuing Education does not grant degrees, the offices within the Division of Continuing Education work closely with all other academic departments and divisions of the university in order to better serve the various groups and populations calling upon the university for its services. The offices within the Division of Continuing Education are:

- Admissions Partnership Program
- The Broyhill Inn and Conference Center
- The Office of Conferences and Institutes
- Camp Broadstone
- The Office of Extension Instruction

The Broyhill Inn and Conference Center

Appalachian's Broyhill Inn and Conference Center is located at an elevation of 3,535 feet at the top of the west campus. The Center contains approximately 75,000 square feet with 26 multipurpose meeting rooms (including a small auditorium), a library, and exhibition areas. It provides complete living accommodations for guests, with 83 bedrooms, a full service dining room and banquet facility.

The Center also contains the most up-to-date audiovisual and learning resources equipment, as well as special lighting. Besides these facilities, there are lounges, cable color TV, and a large lobby. Well-lighted parking areas are available for cars and buses.

The Center was created to respond to the newly articulated needs of adults and is dedicated to the proposition that all people have the inherent right to educational opportunities. While recognizing the need for change, the Center is at once committed to the pursuit of academic excellence, to more adequately meet the educational needs of adults by offering new, imaginative, and exciting programs in keeping with the goals and objectives of the University. The Center has increased the University's capability to fulfill its responsibilities as a regional institution by offering a variety of programs that are designed to enrich the lives of those who participate.

Office of Conferences and Institutes

The university encourages the use of its resources and facilities by groups that are interested in providing educational and/or recreational workshops, clinics, camps, retreats, conferences, seminars, and meetings. The Office of Conferences and Institutes is responsible for the development, coordination, promotion and management of non-credit continuing education programs. Programs are offered to individuals from 8 to 80 years of age, utilizing the resources of a diversified faculty and staff and the modern facilities, equipment, and accommodations at the Broyhill Inn and Conference Center, Camp Broadstone, and the main campus.

For information contact the Director of Conferences and Institutes, University Hall, Appalachian State University, Boone, NC 28608. Phone (704) 262-3045.

Camp Broadstone. In an effort to encourage learning and appreciation of the natural world through discovery and participation in firsthand encounters, Appalachian State University provides the facilities and resources of Camp Broadstone to groups seeking outdoor learning experiences during the fall, winter and spring. The 53-acre camp is located in Valle Crucis alongside the Watauga River, only six miles from the main campus. The camp facilities provide year-round housing for 100 people (groups and family) and a multipurpose dining hall capable of feeding 150. During the summer months the camp operates a six-week residential enrichment program for gifted and talented children.

The University encourages the use of the camp by students, faculty, staff, community and civic groups, and constituents of the university's service region.

For information, contact the Director of Camp Broadstone, Route 1, Box 447, Banner Elk, NC 28604. Phone (704) 963-4640 or 262-3045.

Office of Extension Instruction

J. Michael Ortiz, Director

The office serves as a liaison between the region served and all colleges, divisions, and departments of the university in delivering educational services in a field-based setting and in acting in consorial arrangements with other institutions or agencies in service-oriented projects.

These educational services are offered on an as-needed basis throughout ASU's service region. This service includes the delivery of courses/programs in an off-campus setting at a time and location which provides ease of access for non-traditional students interested in continuing their education.

Three basic delivery approaches are employed by Appalachian State University in providing these educational services:

1. The individual course delivery approach has traditionally been offered as a basic means of delivering graduate/undergraduate credit away from the ASU campus. Prior to registration for each semester a schedule of individual course offerings is mailed to some twenty thousand individuals, schools, and related agencies. This schedule provides information regarding location, time, and dates of all individual courses which will be offered during the upcoming term.
2. The cluster program is another means of delivering field-based course work. A cluster is a group of courses usually taken on a two-course-per-semester basis. A group of individuals with similar educational objectives will begin a cluster program as a group and continue through a complete degree program. Each cluster group is assigned an academic coordinator who serves as advisor to each student and is responsible for providing academic leadership to the cluster. All degree programs have a minimum requirement of nine semester hours of residency credit.
3. Non-credit programs and workshops can be offered to groups of individuals in ASU's service region. Examples of these types of programs are Common Literacy for Non-Computer Programmers, Alternative Careers for Teachers, Motivating People, Retirement Plans for the 25-50 Year Old, etc.

The Continuing Education Unit (CEU)

Appalachian State University awards the Continuing Education Unit (CEU) of credit. One Continuing Education Unit is defined as: 10 contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction. Increasingly business, industry and professional associations, among others, are requiring their members to periodically return to school

to maintain a high level of currency in their field. The CEU is a system designed to document this participation in non-credit courses. The Office of Extension Instruction secures and provides all of the information which is required by the North Carolina Department of Public Instruction for teachers seeking to utilize the CEU for certificate renewal credit. CEU records are maintained at the Office of Extension Instruction.

For further information, contact the director, Extension Instruction, Appalachian State University, Boone, NC 28608, or phone (704) 262-3113.

Admissions Partnership Program (APP)

J. Michael Ortiz, Coordinator

APP, originally funded by the Carnegie Corporation of New York, offers selected students the opportunity of shortening the time required to complete a baccalaureate by one year. This is accomplished through the three phases of the program. The Senior-to-Sophomore phase allows a selected group of regularly admitted freshmen to eliminate approximately 30 semester hours of general education and electives, based on high school background and planned major. Graduation for students in this phase is thus possible in three years. The Early Admissions phase admits students to summer school after their junior year of high school. If a 2.0 average is maintained in freshman course work during the summer and the student meets campus life regulations, the student is invited to continue in the fall as a regular freshman. Finally, the Field-Based phase offers seniors in selected high schools the opportunity to earn up to 26 semester hours of college credit in general education while earning their high school diploma. The courses are taught by specially selected teachers and supervised by ASU departmental representatives.

The Cratis D. Williams Graduate School

Joyce V. Lawrence, Dean of Graduate Studies and Research

Thomas C. Rhyne, Assistant Dean for Graduate Studies

Gregory G. Reck, Assistant Dean for Research and Grants

Graduate study at Appalachian includes encouraging academic inquiry, providing opportunities and facilities for advanced study and research, developing or extending academic or professional specializations, and preparing master teachers, supervisors, and administrators. Accordingly, the Cratis D. Williams Graduate School offers programs leading to the Master of Arts degree with educational certification for teachers and the Master of Arts and Master of Science degrees in many academic areas. There are also programs leading to the Master of Business Administration, Master of Library Science, Master of Music, the Educational Specialists' degree and to the Certificate of Advanced Study, all of which are offered during the two semesters of the regular session and the summer session. Students may also attend courses scheduled for late afternoons, evenings, and Saturdays, or participate in field-based programs.

The Graduate School has general supervision of all graduate work carried out in the departments, schools, and colleges of the University. It consists of a graduate faculty represented by the Dean, who is the administrative officer, and the Graduate Council. The Dean reports to the Vice-Chancellor for Academic Affairs and is responsible for research and graduate studies.

Purpose

Within the framework of higher education established by the State of North Carolina, Appalachian State University seeks to nurture an intellectual climate in which truth is sought and respected, critical thinking is encouraged, cultural horizons are broadened, and ethical and aesthetic values are appreciated. It maintains an academic environment conducive to learning, sensitive to individual, community and regional needs, and alert to the new ideas and challenges of a complex and changing world. To prepare a diverse constituency for productive lives in society, the university provides each student with a well-rounded liberal education and the opportunity to participate in a wide range of educational experiences and professional programs. The university's faculty and administration are dedicated to excellence in teaching, research, and service. Within the limits of its resources, Appalachian State University serves the educational needs of the people within its sphere of influence.

Degree Requirements

For information regarding graduate degree requirements, refer to the *Graduate Bulletin*.

The Register

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Mr. Wes Weaver	Assistant Director of Student Financial Aid
Ms. Linda Smith	Assistant Director of Career Planning and Placement

Faculty

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Program Plan

Following is a four-year diagram for assisting students in developing a program plan. Consultation with an advisor in the major area is advised in preparation of the plan to determine in advance courses needed and the proper sequence for completion of them. Courses taken each semester will, of course, be dependent upon availability of the courses.

Freshman Year

Fall Semester		Spring Semester	
Course	Credit Hours	Course	Credit Hours
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Total Hours Completed_____		Total Hours Completed_____	

Sophomore Years

Fall Semester		Spring Semester	
Course	Credit Hours	Course	Credit Hours
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Total Hours Completed_____		Total Hours Completed_____	

Junior Year

Fall Semester		Spring Semester	
Course	Credit Hours	Course	Credit Hours
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Total Hours Completed_____		Total Hours Completed_____	

Senior Year

Fall Semester		Spring Semester	
Course	Credit Hours	Course	Credit Hours
Total Hours Completed_____		Total Hours Completed_____	

Other

(Transfer credits, summer sessions, credit by examination, etc.)

Course	Credit Hours	Course	Credit Hours
		Total Hours Completed_____	

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